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Physicochemical effects on the abundance and distribution of larval fishes in the Atchafalaya River Basin, Louisiana

Matthew Aaron Engel

Louisiana State University and Agricultural and Mechanical College, mengel1@lsu.edu

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**PHYSICOCHEMICAL EFFECTS ON THE ABUNDANCE AND DISTRIBUTION
OF LARVAL FISHES IN THE ATCHAFALAYA RIVER BASIN, LOUISIANA**

A Thesis

**Submitted to the Graduate Faculty of the
Louisiana State University and
Agricultural and Mechanical College
In partial fulfillment of the
Requirements for the degree of
Master of Science**

In

The School of Renewable Natural Resources

**By
Matthew Aaron Engel
B. S., University of Illinois at Urbana-Champaign, 1998
August 2003**

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ABSTRACT

The Atchafalaya River Basin (ARB) experiences overbank inundations as springtime temperatures warm that create conditions favorable for bacterial respiration, which results in hypoxic conditions (dissolved oxygen [DO] ≤ 2.0 mg/L). Previous ARB research has shown that pelagic larval fish populations are impacted by hypoxic conditions, and that larvae may use macrophyte beds (e.g., hydrilla *Hydrilla verticillata*) as DO refugia. I examined the relationship between physicochemistry and the distribution and abundance of larval fishes associated with ARB macrophyte beds during 2001-2002. Larval fishes were collected with light traps at two normoxic and hypoxic sites, and at each site, surface and subsurface traps were placed in open channels, hydrilla beds, and the interface between the channel and macrophyte beds (border). Of the 1,718 larval fishes representing 10 families that were collected, centrarchids *Lepomis* spp. (45.5%) and catostomids *Ictiobus* spp. (25.7%) dominated the 2001 assemblage, whereas percids *Etheostoma* spp. (29.1%) and centrarchids (17.8%) were most abundant in 2002. River stages between years were different from each other ($P < 0.001$), and from the 42-year stage average ($P < 0.001$). Between-year differences in flood pulse timing and duration resulted in higher pH, temperature, and DO levels, and 2.5 times more larval fishes in 2001. Overall, larval fish abundances under hypoxic conditions were severely reduced during both years. Under normoxic conditions, larval fishes were collected from all habitats, but were typically in higher abundance in nearshore areas regardless of cover conditions (hydrilla vs. no cover). Larvae that could withstand hypoxic conditions (centrarchids, clupeids, cyprinids, and percids) were typically found in nearshore areas associated with hydrilla beds. Because of the increased abundance of predatory

invertebrates in these areas, the use of hydrilla beds by fish larvae as oxygen refugia may provide optimal physicochemical conditions at an increased predation risk. Man-made alterations in the ARB have changed circulation patterns on the inundated floodplain, which contribute to seasonally widespread hypoxic conditions and reductions in larval fish abundance. Thus, any management plan that increases the historic connection between the mainstem Atchafalaya River and the floodplain, and improves floodplain circulation would benefit larval fish production in the ARB.

INTRODUCTION

Annual inundations of river-floodplains, such as the Atchafalaya River Basin (ARB), are important regulators of production, consumption, decomposition, and exchange of materials, energy, and organisms between permanent lotic and seasonally flooded areas (Junk et al. 1989, Sparks et al. 1990). Long-lasting predictable flood pulses over time have led to developmental adaptations and strategies of fishes that allow efficient utilization of many habitats and resources created in floodplains (Junk et al. 1989). Fishes that depend on seasonal inundations of river-floodplains dominate fisheries biomass and production in seasonally flooded systems (Bonetto et al. 1969; Welcomme 1979; Bayley 1981, 1983; Goulding 1981; Littlejohn et al. 1985). Spawning, for many fishes, occurs at the beginning of, or during the rising flood, resulting in their movement onto floodplains for feeding and shelter (Bayley 1983; Holland et al. 1983; Welcomme 1985). Post-spawning, floodplains serve as nursery habitat for many larval and juvenile fishes (Scott and Nielsen 1989; Brown and Coon 1994; Bayley 1995; Sparks 1995), providing nutrients for growth and survival.

Although important to floodplain systems, flood pulses can negatively impact fish production. When rising floodwaters stabilize, microbial respiration overtakes primary production due to decomposition of large quantities of organic matter on the floodplain (Junk et al. 1989; Bayley 1995). In the ARB, this condition creates periods of environmental hypoxia (Fontenot et al. 2001) where dissolved oxygen (DO) levels often drop below 2.0 mg-O₂/L (Bryan and Sabins 1979; Davidson et al. 1998; Rutherford et al. 2001). These changes in DO impart a biologically significant spatial structure in the water column where the top mixed layer is aerated and the bottom layer is frequently

anoxic (0 mg-O₂/L; Breitburg et al. 1999). Once the floodwaters begin to recede, hypoxic water escapes timbered floodplains in the ARB and mixes with the normoxic (> 5.0 mg-O₂/L) water found in connecting bayous, canals, and lakes. Although adults of some fish species are able to efficiently extract oxygen or use alternative modes of oxygen uptake in hypoxic areas (Kramer 1987), these hypoxic conditions can have a deleterious effect on fisheries production in backwater areas due to decreased availability of DO necessary for larval fish growth and survival.

An additional factor affecting fisheries production in southeastern floodplain systems is the recent invasion of exotic aquatic macrophytes such as common salvinia *Salvinia minima*, hydrilla *Hydrilla verticillata*, and water hyacinth *Eichornia crassipes*. Aquatic macrophytes provide important habitat for shelter, breeding sites, and cover for numerous vertebrate species (Balciunas and Minno 1985) and often increase production, abundance, and species richness of resident fish assemblages (Killgore et al. 1989). However, exotic macrophyte introductions displace native macrophytes such as cabomba *Cabomba caroliniana* and coontail *Ceratophyllum demersum*, creating declines in submergent and emergent macrophyte diversity and abundance (Colle and Shireman 1980; Keast 1984) and altering the distribution and diversity of fish and invertebrate assemblages (Chilton 1990; Chick and McIvor 1994). Exotic macrophytes also create dense homogenous beds in littoral areas of the ARB, which may result in reduced access and foraging ability for littoral fishes (Savino and Stein 1982) and cause additional reductions in water quality (Colle and Shireman 1980; Langeland 1996).

Hydrilla represents one of the more aggressive and important threats to aquatic systems in Louisiana, particularly in the ARB. Hydrilla can spread rapidly in floodplain

systems through fragmentation and can gain access to most areas in the ARB when floodwaters reach their peak. Hydrilla often displaces native macrophytes by reducing light availability to native vegetation by forming dense canopies below the water surface. In addition, hydrilla photosynthesizes at lower light levels (Van et al. 1976), and can grow at greater depths, which allows uptake of essential dissolved carbon earlier in the morning and later in the evening than other macrophyte taxa (Langeland 1996).

When species of aquatic macrophytes such as hydrilla form dense canopies, water quality varies within the beds along a vertical gradient and between beds of different species (Frodge et al. 1990). Dense beds of aquatic macrophytes have been shown to alter vertical gradients of light, temperature, DO, and pH (Carpenter and Lodge 1986; Madsen 1997), and hydrilla beds exhibit these distinct vertical water quality gradients. Daytime DO concentrations near the bottom of hydrilla beds are frequently hypoxic while DO concentrations in the hydrilla canopy are normoxic. However, nighttime canopy DO concentrations fall below or near hypoxic levels. The constantly fluctuating DO concentrations in hydrilla beds reduce the number of invertebrate and vertebrate species that can survive in both canopy and subcanopy habitats.

Few studies have examined the distribution and abundance of larval fishes in the ARB. Hall (1979) examined temporal and spatial distributions of ichthyoplankton in the upper ARB between the main channel of the Atchafalaya River and backwater areas, and observed a relationship between physicochemical factors and larval occurrence as well as differences in species composition between the main channel and backwaters. Fontenot et al. (2001) examined relationships between physicochemical effects and ichthyoplankton growth and abundance among lake and channel sites in the ARB. They

found higher abundances of *Lepomis* spp. and *Dorosoma* spp. larvae in normoxic sites than in hypoxic areas. However, when DO in hypoxic areas returned to normoxic levels, larvae were immediately observed to inhabit those sites. Because larvae are unable to quickly swim large distances to escape hypoxic areas, they may have been present but were not susceptible to larval push nets used to sample in these areas. Though DO concentrations in hydrilla can fluctuate significantly, DO in the canopy remains at higher levels than in adjacent dredged channels (Fontenot et al. 2001). Therefore, hydrilla canopies may serve as oxygen refugia for larvae when DO concentrations fall to stressful levels in adjacent lentic areas.

The goal of my study is to attain a greater understanding of larval fish distribution and abundance in hypoxic and normoxic areas of the ARB. The objectives of the study are to: 1) Evaluate the differences of larval fish distribution and abundance between normoxic and hypoxic areas, 2) Determine if submerged aquatic vegetation, depth, or distance from shore affects larval fish distributions, 3) Determine if distribution and abundance of larval fishes is correlated with other physicochemical factors such as temperature, specific conductance, pH, and turbidity, and 4) Evaluate differences in the sampling efficiency of light traps and larval push-nets in determining larval fish assemblage structure.

METHODS

Study Area and Sites

The Atchafalaya River is the primary tributary of the Mississippi River receiving 30% of a combined discharge from the Mississippi and Red rivers (Lambou 1990). The Atchafalaya River flows 270 km through south-central Louisiana before discharging into the Gulf of Mexico. This discharge is creating a new deltaic floodplain, which is increasing what is already North America's largest remaining river overflow swamp, approximately 8,000 km² (Hesse et al. 1989, 1993, NRC 1992). The ARB contains a myriad of aquatic habitats such as natural bayous, hardwood swamps, shallow backwater and headwater lakes, and man-made oil and gas canals. Water levels increase annually due to spring inundations and overflow into timbered floodplains, then decrease throughout the summer and fall, retreating into canals, lakes, and bayous. Historically, native aquatic vegetation found in the ARB consisted of cabomba, coontail, and sagittaria (*Sagittaria* spp.). However, since the 1970's, exotic invaders such as common salvinia, hydrilla, and water hyacinth have aggressively displaced and currently dominate the ARB macrophyte community. Presently, hydrilla is the dominant aquatic macrophyte in the ARB, representing most of the vegetative habitat available to fishes.

Hydrilla beds in the ARB are characterized by extremely dense canopies and relatively less dense subcanopies. Researchers in the ARB have observed diel DO fluctuations in hydrilla beds, where concentrations peak before dusk at normoxic levels and frequently become hypoxic during the night, whereas conditions in the subcanopy are consistently hypoxic (Colon-Gaud 2003). Additionally, hydrilla canopies supported

higher abundances of macroinvertebrates (Colon-Gaud 2003), which serve as a forage base or predatory threat for many fishes and their larvae.

Four sites located in the lower ARB (St. Martin Parish, Louisiana) were sampled during 2001 and 2002. Sites were selected based on whether they were historically subjected to extended periods of hypoxia ($DO < 2.0$ mg/L). Two normoxic sites were selected in Grand Lake, and two hypoxic sites were located in Little Bayou Long (LBL) and West Fork Bayou (WF). Grand Lake is a shallow eutrophic lake located in the lower ARB. Grand Lake-1 (GL1) was located on the lake near a small island, and Grand Lake-2 (GL2) was a manmade canal adjacent to the main lake body. The two bayou sites were located in the central East Grand Lake area of the lower ARB, which is characterized by manmade canals constructed for oil and gas extraction. When floodwaters recede from adjacent floodplain areas during the spring and early summer, these canals frequently become hypoxic.

Fish Collection

I used light trap sampling for this study because it is more efficient in littoral areas characterized by large woody debris and dense mats of aquatic vegetation, which is characteristic of most shallow-water habitats in the ARB. Because push-net sampling is limited to deep-water areas that are clear of sampling obstacles, push-nets were only used for pelagic larval fish samplings. Because these sampling techniques are not directly comparable, I also used light traps to collect larval fishes from channel locations.

At each lake or canal location, larval fishes were sampled modified quatrefoil larval fish traps (Floyd et al. 1984) that were set at all sites and sampled from 1 h before sunset to 3 h after sunrise. Larval fish light trap modifications included the use of Duralumes[®]

chemical light sticks (Lindgren-Pitman, Inc., Pompano Beach, Florida), 505 μm mesh cod ends, and modification to deep-set traps 1 m below the water surface. Two replicates of five surface and five, 1-m deep (subsurface) traps were placed in the border and hydrilla areas of each site, and one surface and one subsurface trap were sampled in the limnetic channel (Figure 1).

In addition to light traps, push nets were used in channel areas to collect fish larvae before light traps were set. Three bow-mounted ichthyoplankton nets (0.5-m diameter, 500- μm mesh) were pushed at each site for three, 5-min sampling runs. The volume of water filtered (m^3) by each net was measured by a flowmeter mounted in the opening of the middle net (General Oceanics[®] Model #2030).

Cod ends and push nets were completely washed and samples were preserved in 90% ethyl alcohol and taken to the laboratory for identification. All fish larvae were sorted, preserved in 90% ethyl alcohol, and then counted and identified to the lowest practical taxonomic level (usually genus) with various keys (Auer 1982). Larval fishes were also categorized as preflexion, flexion, postflexion larvae, or juveniles based on ontogenetic changes in the homocercal caudal fin (Ahlstrom et al. 1976).

Physicochemistry

During each larval fish collection, a model SVR3-DL DataSonde 3 (Hydrolab[®] Inc., Denver, Colorado) was used to measure dissolved oxygen (mg/L), specific conductance ($\mu\text{mhos/cm}$), water temperature ($^{\circ}\text{C}$), water depth (m), and pH at the surface and bottom of the limnetic zone (channel), the border of the limnetic and littoral zones (border), and in the littoral zone (hydrilla). Turbidity was determined with a Secchi disk (cm) within the three habitats. During sampling dates when larval pushes were the only method used

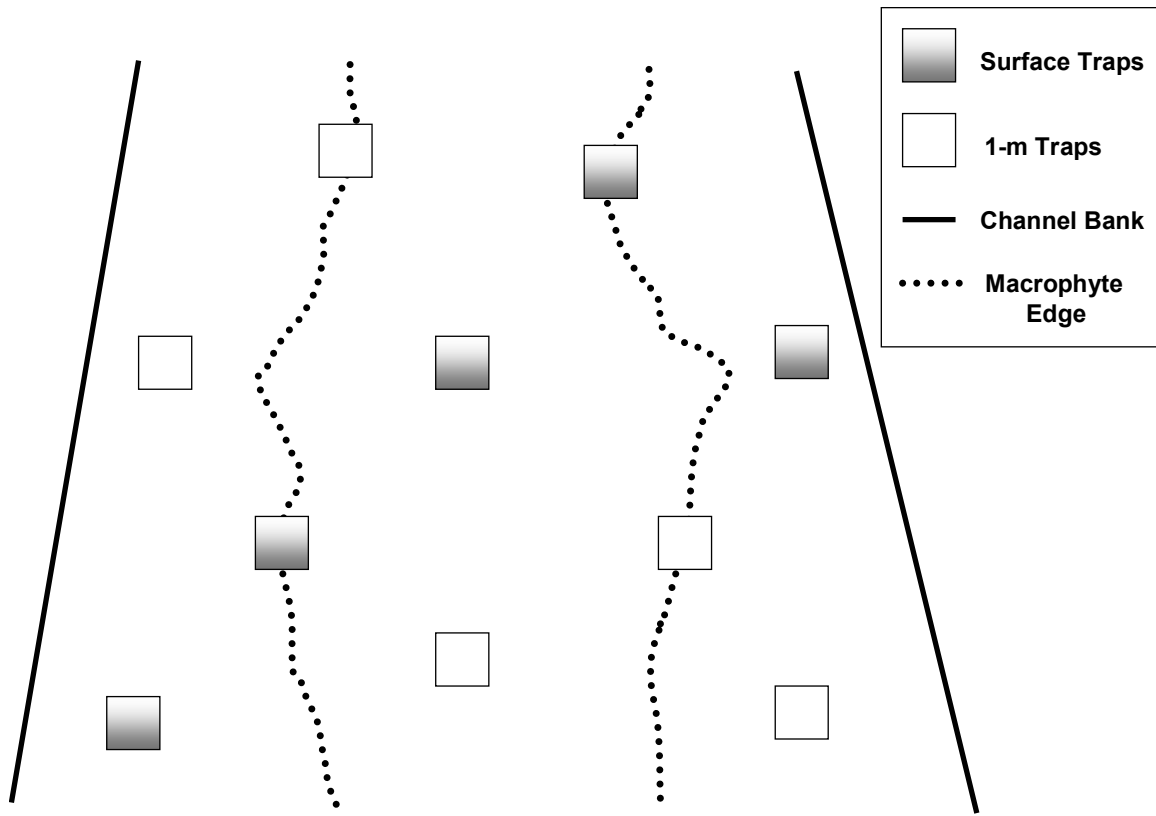


Figure 1. Placement of surface and subsurface light traps within sites during the 2001-2002 seasons.

to sample larvae, surface physicochemistry was measured. For each sample the percentage of macrophyte cover was assessed for the hydrilla and border zones. Atchafalaya River stage data was obtained from the US Army Corps of Engineers recording gauge (#03120) at Butte La Rose, Louisiana.

Statistical Analysis

Principal component analyses (PCA) were used to assess differences among physicochemical variables for sites between years and for light trap positions during 2002 (PROC FACTOR; SAS Institute, Inc. 1985). Principal components with eigenvalues above 1.0 were retained, and variable loadings greater than 0.4 were used for interpretation (Johnson and Wichern 1992).

Analyses of variance (ANOVA) was used to identify physicochemical differences among sites within years, between surface and subsurface hydrilla and channel traps, mean river stage differences among years, and to assess habitat effects on the distribution of the six most abundant larval fish taxa collected during 2001 and 2002 (PROC GLM; SAS Institute, Inc. 1985). Only values of $P < 0.05$ were considered significant, and Tukey's *post hoc* analysis was used to determine groupings for all ANOVA analyses. For river stage, daily means were obtained for 1959 through 2000 and compared with daily means from 2001 and 2002. To determine differences in the vertical (channel, border, littoral) and horizontal (surface, subsurface) distribution of ARB larval fishes, species-specific ANOVAs were performed on $(\log + 1)$ transformed larval abundance (larval fish per trap hour) of commonly collected larvae: centrarchids *Lepomis* spp., cyprinids Cyprinidae spp., and percids *Etheostoma* spp. Each species was analyzed separately from its first through last light-trap collection date. Because sampling periods

were variable among taxa they were treated as independent datasets, thus no adjustment of the stated α -level (0.05) for multiple tests was made (Perneger 1998). Interactions that were not significant were removed from the model statement, and the remaining effects were retested. Because of differential mobility associated with preflexion and postflexion larval stages, I analyzed each stage separately. There was no vegetative cover at any littoral light-trap site from March – May 2001, however littoral vegetation was present from June 2001 – July 2002. For this reason, larval fish data over the two periods were analyzed separately. Only larval taxa that were collected on more than two sampling dates and totaled more than 50 individuals were analyzed for both periods. To account for variation in hydrilla densities during the vegetated period, I classified hydrilla coverage in the littoral zone at each site as none (0%), low (1- 49%), or high ($\geq 50\%$).

To further characterize differences between larval abundance and dissolved oxygen concentrations I used Chi-square analysis on $[(\text{CPUE} * 1,000) + 0.5]$ transformed data (PROC FREQ; SAS Institute, Inc. 1985). This analysis was performed for the six most abundant larval taxa collected. However, since preflexion atherinids and postflexion atherinids and centrarchids were never found in hypoxic areas, and catostomids were never collected in normoxic or hypoxic water during the period of environmental hypoxia in the ARB, they were excluded from the analysis. For each species, only sampling days where at least one trap was sampled during hypoxic conditions were used. P -values < 0.05 for the Chi-square analyses were considered significant.

RESULTS

Physicochemistry

Atchafalaya River stages typically peak in April and reach their lowest level in September (1959 – 2000 data; U.S.G.S monitoring station, Butte Larose, Louisiana). However, in 2001 and 2002, overall flood pulses were lower ($P < 0.0001$) than the 42-year mean. With the exception of March, June, and December, the 2001 flood pulse was lower ($P < 0.0001$) than the 42-year mean. In 2002, the flood pulse was lower ($P < 0.0001$) than 42-year mean levels in January, March, July-September, and December. Mean river stages were lower ($P < 0.0001$) in 2001 than in 2002 during January-February, April-June, and November, but higher in March and December (Figure 2).

PCA of physicochemical variables resulted in two principal components with eigenvalues greater than 1.0 that explained 68% of the variation between years and sites. PC1 was positively associated with DO, specific conductance and pH, and negatively associated with Secchi disk depth, whereas PC2 was positively associated with temperature and Julian date. Plots of site scores for PC1 versus PC2 showed that in 2001, sites exhibited higher DO, specific conductance, pH, and temperature and lower Secchi disk depth (Figure 3). Among sites, GL1 exhibited the highest DO, specific conductance, and pH and lowest Secchi disk depth during both years, while GL2 was intermediate and WF and LBL displayed the lowest values for PC1. For 2002, WF, LBL, and GL2 were characterized by higher temperatures.

PCA of physicochemical differences among light trap horizontal and vertical positions resulted in two principal components with eigenvalues greater than 1.0 that

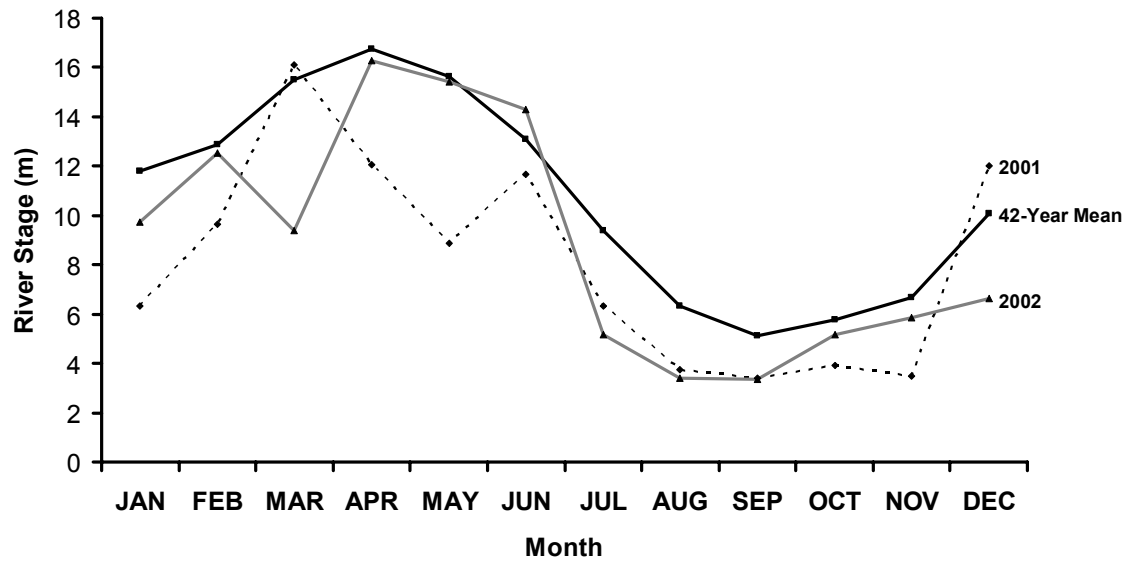


Figure 2. Mean monthly Atchafalaya River stages for 2001, 2002, and the period from 1959 to 2000. All river stage data are from the U.S. Geological Survey monitoring station located in Butte La Rose, Louisiana.

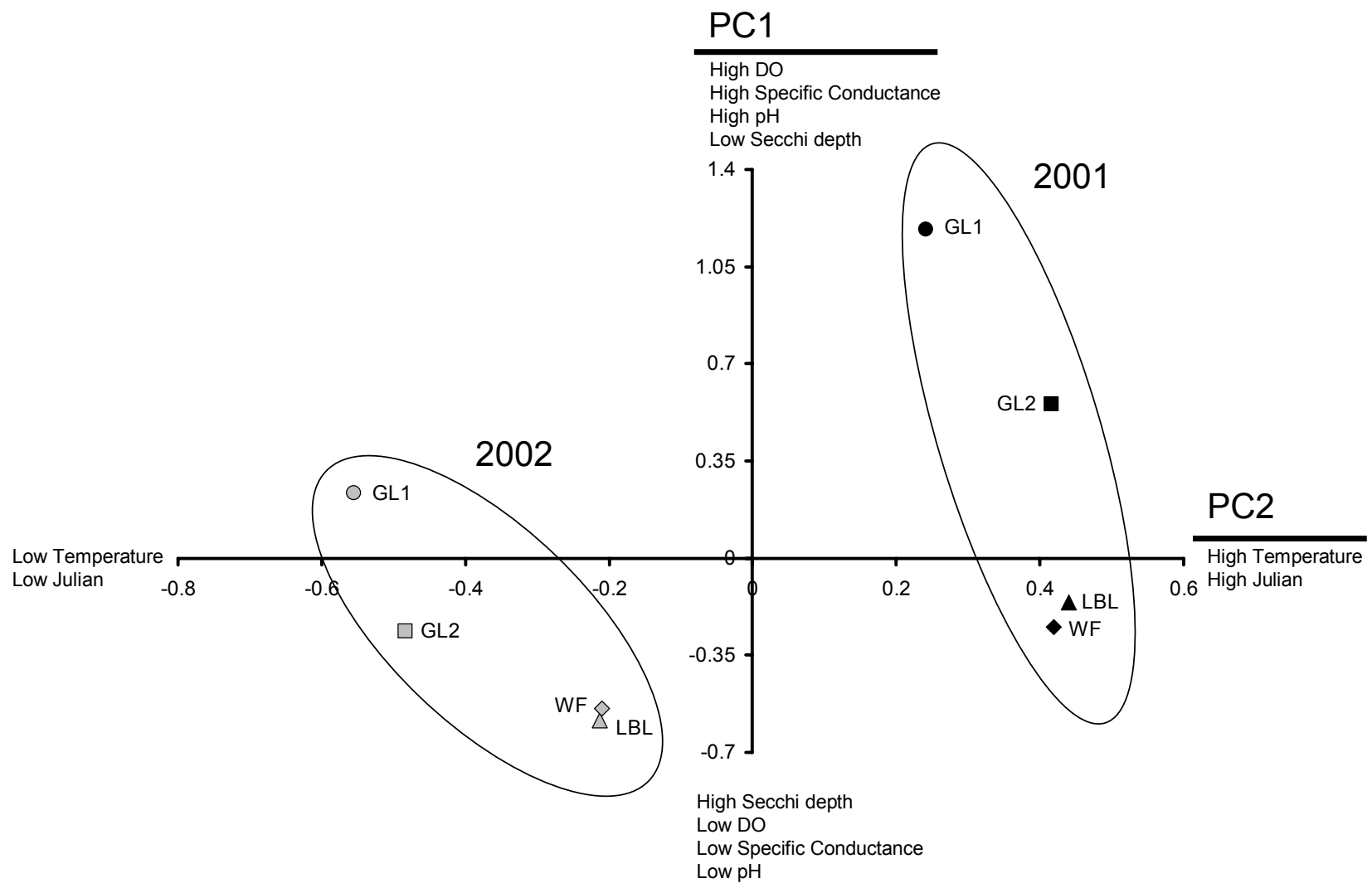


Figure 3. Plot of principal component scores based on physicochemical conditions at the four sites sampled during 2001 and 2002.

explained 81% of the variance. PC1 was positively associated with Secchi depth and negatively associated with temperature, while PC2 was positively associated with DO and pH and negatively associated with specific conductance. Plots of scores for PC1 versus PC2 (Figure 4) showed that channel habitat was characterized by the highest Secchi disk depth and specific conductance, whereas hydrilla habitats exhibited the highest DO, pH, and temperature values. Physicochemical characteristics of border habitats were intermediate between channel and hydrilla trap positions. Subsurface light traps in the three habitats were characterized by higher specific conductance and lower DO, pH, and temperature than surface light traps. However, subsurface light traps in hydrilla exhibited higher temperatures than surface traps.

In 2001, dissolved oxygen was higher ($P < 0.0001$) in GL1 and GL2 surface traps, and lowest ($P < 0.0001$) in LBL and WF surface and subsurface traps (Table 1). For pH, GL1 surface and subsurface traps and GL2 surface traps exhibited higher pH values ($P < 0.0001$), while LBL and WF surface and bottom traps were observed to have the lowest pH values. There were no differences in temperature, specific conductance, and Secchi disk depth between sites or trap depth.

In 2002, GL1 surface traps exhibited higher dissolved oxygen values than GL2 subsurface and LBL and WF surface and subsurface traps ($P < 0.0001$). LBL and WF subsurface traps were characterized by the lowest dissolved oxygen values ($P < 0.0001$). GL1 surface traps showed significantly higher pH values than LBL subsurface traps ($P = 0.0117$), and GL1 traps exhibited the lowest Secchi disk depth when compared to other sites ($P < 0.0001$). No significant differences among sites were found for temperature and specific conductance in 2002.

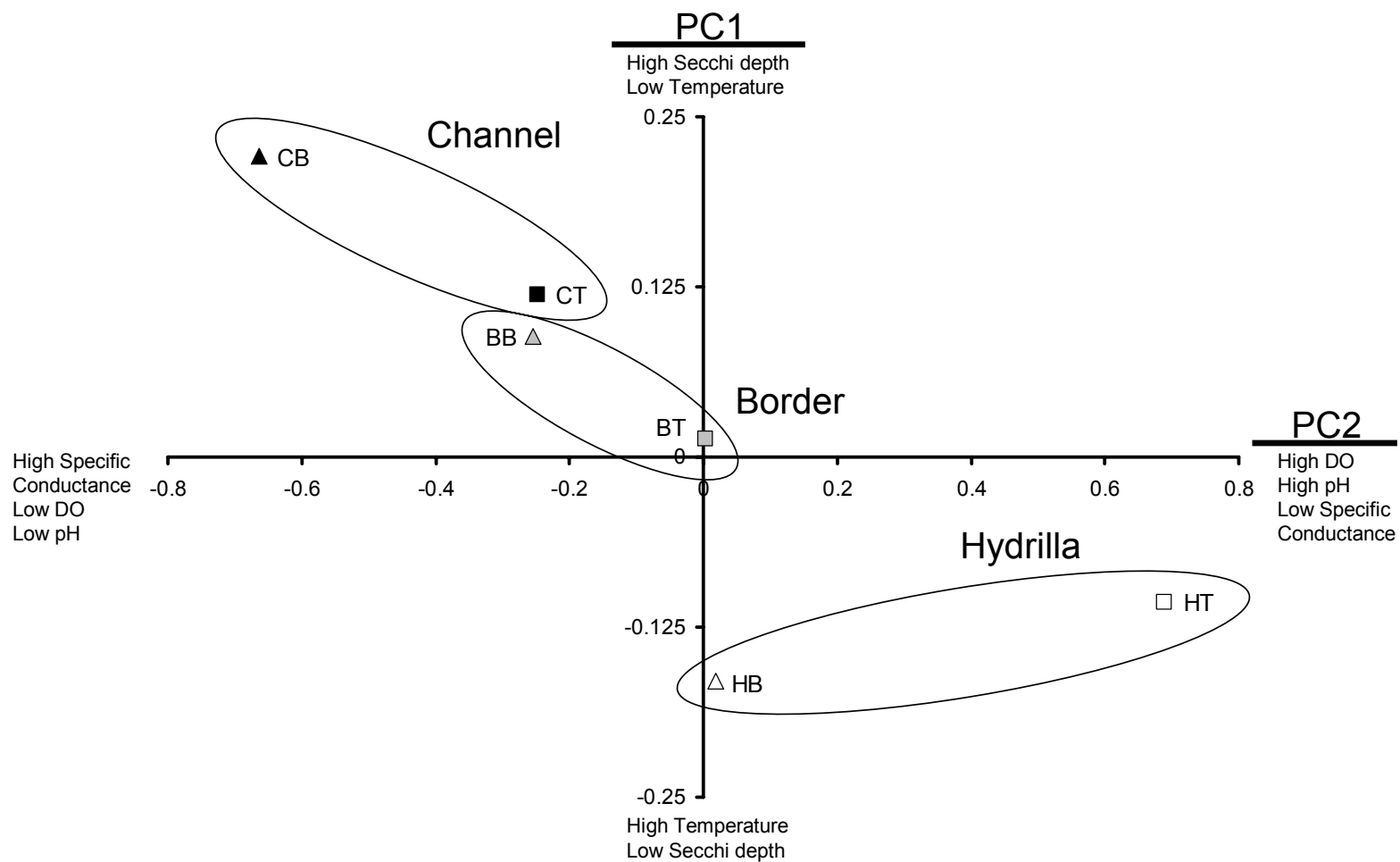


Figure 4. Plot of principal Component scores based on physicochemical conditions for each trap position during 2001 and 2002. CB=Channel Bottom, CT=Channel Surface, BB=Border Bottom, BT=Border Surface, HB=Hydrilla Bottom, HT=Hydrilla Surface.

Table 1. Mean (\pm SE) physicochemical values for sites sampled during 2001 and 2002. For each year and within a column, values not sharing a lowercase letter are significantly different.

Site	Position	Traps	Dissolved Oxygen (mg/L)	Temperature ($^{\circ}$ C)	Specific Conductance (μ mhos/cm)	pH	Secchi Depth (cm)
2001							
GL1	Surface	33	10.79 \pm 0.55 (a)	28.4 \pm 0.85 (a)	321 \pm 9.46 (a)	8.04 \pm 0.14 (a)	36.0 \pm 2.43 (a)
	Bottom	30	7.16 \pm 0.54 (bc)	27.8 \pm 0.59 (a)	336 \pm 9.15 (a)	7.72 \pm 0.11 (ab)	
GL2	Surface	33	9.11 \pm 0.79 (ab)	28.8 \pm 0.90 (a)	313 \pm 10.5 (a)	7.80 \pm 0.14 (ab)	47.2 \pm 2.53 (a)
	Bottom	30	6.22 \pm 0.69 (cd)	28.0 \pm 0.64 (a)	321 \pm 9.68 (a)	7.32 \pm 0.22 (bc)	
LBL	Surface	33	5.25 \pm 0.53 (cde)	27.2 \pm 0.76 (a)	309 \pm 10.4 (a)	7.15 \pm 0.09 (c)	48.4 \pm 3.70 (a)
	Bottom	30	4.18 \pm 0.50 (de)	27.6 \pm 0.52 (a)	315 \pm 10.5 (a)	7.06 \pm 0.08 (c)	
WF	Surface	34	4.33 \pm 0.47 (de)	26.9 \pm 0.71 (a)	305 \pm 8.73 (a)	7.10 \pm 0.08 (c)	49.8 \pm 4.09 (a)
	Bottom	31	3.64 \pm 0.41 (e)	27.5 \pm 0.51 (a)	311 \pm 9.06 (a)	7.05 \pm 0.08 (c)	
2002							
GL1	Surface	32	6.24 \pm 0.38 (a)	25.7 \pm 1.08 (a)	317 \pm 8.24 (a)	7.26 \pm 0.07 (a)	46.5 \pm 4.25 (a)
	Bottom	31	4.82 \pm 0.35 (ab)	24.1 \pm 1.16 (a)	314 \pm 9.13 (a)	7.11 \pm 0.07 (ab)	
GL2	Surface	30	5.15 \pm 0.54 (ab)	25.0 \pm 1.20 (a)	308 \pm 7.95 (a)	7.19 \pm 0.08 (ab)	77.4 \pm 7.13 (b)
	Bottom	30	4.13 \pm 0.53 (bc)	23.7 \pm 1.19 (a)	307 \pm 8.41 (a)	7.04 \pm 0.07 (ab)	
LBL	Surface	36	4.13 \pm 0.28 (bc)	25.9 \pm 1.02 (a)	308 \pm 6.12 (a)	7.06 \pm 0.07 (ab)	86.3 \pm 5.92 (b)
	Bottom	36	3.17 \pm 0.20 (c)	25.4 \pm 1.00 (a)	309 \pm 6.25 (a)	6.92 \pm 0.07 (b)	
WF	Surface	36	3.98 \pm 0.31 (bc)	25.9 \pm 0.98 (a)	309 \pm 6.16 (a)	7.09 \pm 0.06 (ab)	82.9 \pm 6.29 (b)
	Bottom	36	3.20 \pm 0.20 (c)	25.5 \pm 0.97 (a)	310 \pm 6.23 (a)	6.99 \pm 0.04 (ab)	

Similar differences between depths were observed when channel and hydrilla habitats were compared (Table 2). Channel subsurface areas had the lowest dissolved oxygen ($P < 0.0001$) and pH ($P = 0.0038$) values in 2001. In 2002, channel subsurface areas had lower dissolved oxygen ($P = 0.0018$) and pH ($P = 0.0296$) values than surface areas for channel and hydrilla habitats. No significant differences were found for temperature, specific conductance, and Secchi disk depth among habitats in either study year.

Fish Collection

I collected 1,247 larvae representing 9 families in 473 light trap samples during the 2001 season (Table 3). Centrarchids (45.5%), catostomids (25.7%), and cyprinids (13.3%) were the dominant taxa encountered, although clupeids (6.1%), atherinids (4.3%), and moronids (1.3%) were also common. Atherinids, centrarchids, clupeids, and cyprinids were collected throughout most of the sampling season, catostomids and percids were collected in the early-season samples; fundulids in mid-season collections, and moronids and engraulids were collected in the late part of 2001 (Figure 5).

In 2002, I collected 471 larvae representing 9 families in 377 light trap samples. The most abundant taxa collected were percids (29.1%), centrarchids (17.8%), catostomids (15.1%), and cyprinids (12.3%), while atherinids (6.8%), moronids (1.5%), and aphredoderids (1.3%) were collected in lower numbers. The same pattern of early-, mid-, and late-season larval occurrence was observed in 2002 collections, except for the addition of *Aphredoderus sayanus* to the early spawning species (Figure 6).

Table 2. Mean (\pm SE) physicochemical values for channel and hydrilla habitats during the 2001-2002 seasons. For each year and within a column, values not sharing a lowercase letter are significantly different.

Position	Trap Depth	Traps	Dissolved Oxygen (mg/L)	Temperature ($^{\circ}$ C)	Specific Conductance (μ mhos/cm)	pH	Secchi Depth (cm)
2001							
Channel	Surface	44	7.63 \pm 0.69 (a)	27.7 \pm 0.70 (a)	313 \pm 8.52 (a)	7.51 \pm 0.12 (a)	48.0 \pm 3.00 (a)
	Bottom	40	3.77 \pm 0.30 (b)	26.9 \pm 0.44 (a)	322 \pm 8.01 (a)	7.01 \pm 0.15 (b)	
Hydrilla	Surface	88	7.28 \pm 0.44 (a)	27.9 \pm 0.50 (a)	312 \pm 6.00 (a)	7.53 \pm 0.08 (a)	44.0 \pm 2.08 (a)
	Bottom	80	6.10 \pm 0.40 (a)	28.2 \pm 0.35 (a)	321 \pm 6.08 (a)	7.42 \pm 0.07 (a)	
2002							
Channel	Surface	41	4.92 \pm 0.25 (a)	25.1 \pm 0.96 (a)	308 \pm 6.58 (a)	7.12 \pm 0.07 (a)	77.0 \pm 6.25 (a)
	Bottom	40	3.37 \pm 0.25 (b)	23.6 \pm 0.96 (a)	308 \pm 7.07 (a)	6.92 \pm 0.05 (b)	
Hydrilla	Surface	80	4.79 \pm 0.26 (a)	25.2 \pm 0.69 (a)	309 \pm 4.77 (a)	7.12 \pm 0.05 (a)	72.2 \pm 4.01 (a)
	Bottom	80	4.03 \pm 0.25 (ab)	24.4 \pm 0.69 (a)	309 \pm 4.94 (a)	7.03 \pm 0.04 (ab)	

Table 3. Numbers of larval fishes collected in light traps and push nets during 2001 (March 26-September 13) and 2002 (March 5-July 22). Pre=Preflexion, Post=Postflexion, UID=Unidentified Stage.

Taxon	Stage	Gear Type			
		Light Traps		Push Nets	
		2001	2002	2001	2002
Cyprinidae					
<i>Cyprinus carpio</i>	Pre	16	9	0	0
	Post	1	17	0	0
<i>Opsopoeodus emiliae</i>	Pre	0	1	0	0
	Post	0	1	0	0
Unidentified Cyprinidae	Pre	145	29	0	1
	Post	4	1	0	1
Percidae					
<i>Etheostoma</i> spp.	Pre	0	123	0	89
	Post	6	13	0	6
	UID	0	1	0	0
Aphredoderidae					
<i>Aphredoderus sayanus</i>	Pre	0	2	0	0
	Post	0	4	0	0
Fundulidae					
<i>Fundulus chrysotus</i>	Pre	4	1	0	0
	Post	3	3	0	0
Clupeidae					
<i>Dorosoma</i> spp.	Pre	32	20	576	17300
	Post	42	7	978	29203
	UID	2	6	0	11
Catostomidae					
<i>Ictiobus</i> spp.	Pre	284	65	0	268
	Post	34	0	0	0
	UID	3	6	0	0
Atherinidae					
<i>Menidia beryllina</i>	Pre	6	24	6	23
	Post	43	5	1	11
	UID	5	3	0	0
Moronidae					
<i>Morone</i> spp.	Pre	2	4	0	0
	Post	14	3	0	4
Centrarchidae					
<i>Lepomis</i> spp.	Pre	266	65	551	7012
	Post	289	11	40	601
	UID	12	8	2	1
<i>Micropterus</i> spp.	Pre	6	4	0	11
	Post	0	6	0	2
<i>Pomoxis</i> spp.	Pre	7	8	0	240
	Post	4	1	0	0
Engraulidae					
<i>Anchoa mitchelli</i>	UID	1	0	0	0
Unidentified Fishes		16	20	2	4

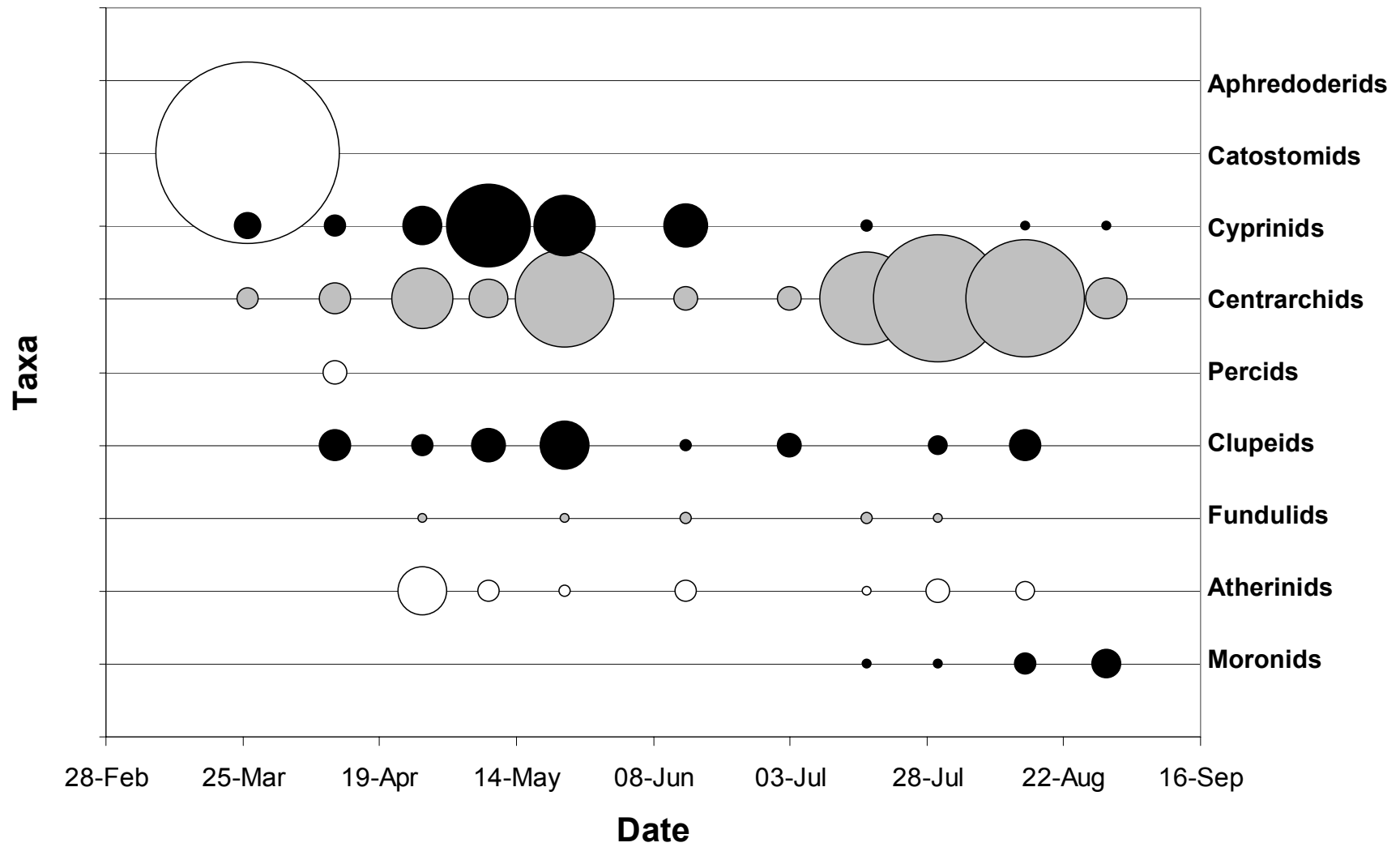


Figure 5. Larval fishes collected from light traps during 2001. Circle size represents abundance of larvae collected on each date.

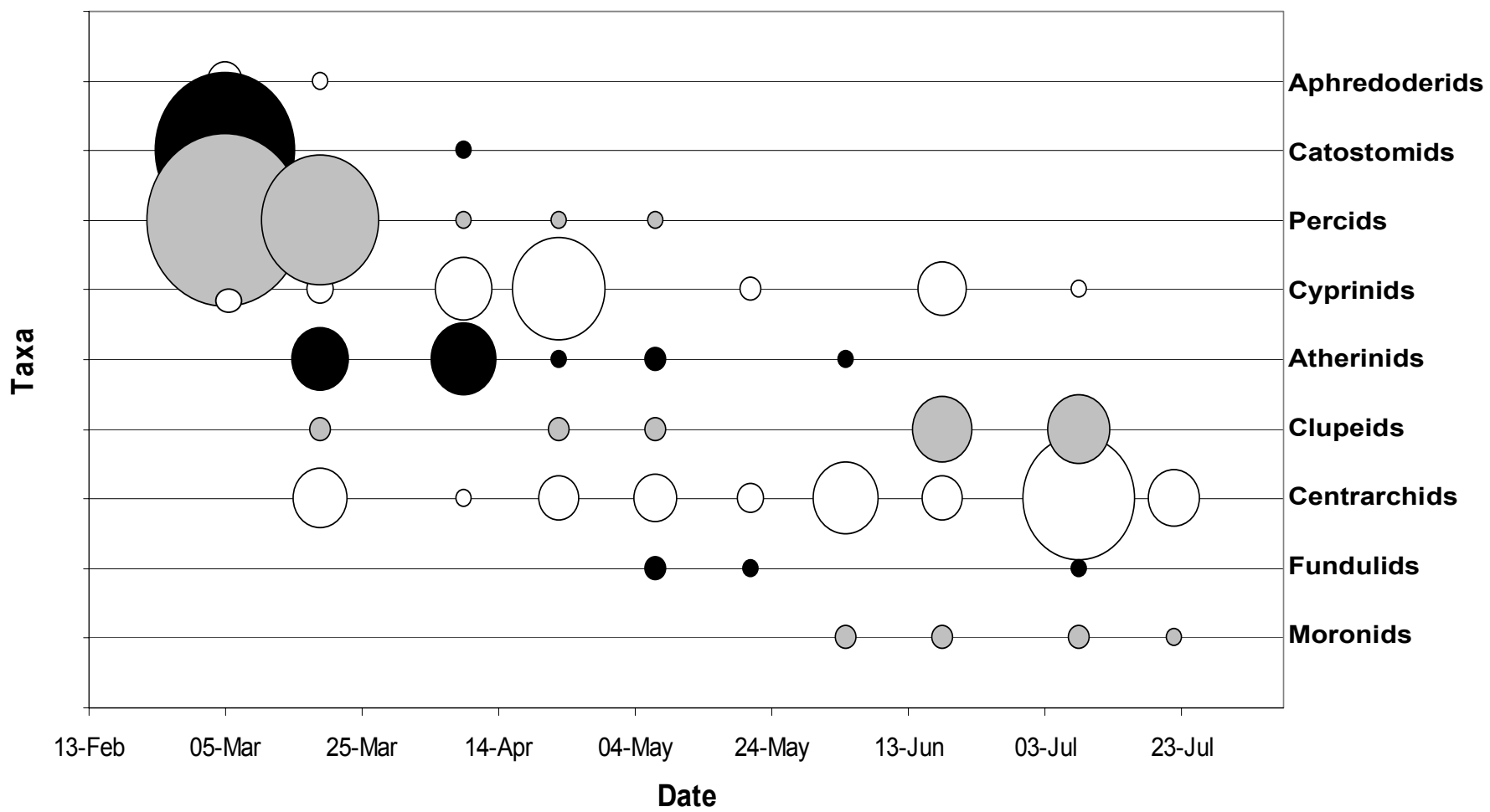


Figure 6. Larval fishes collected from light traps during 2002. Circle size represents abundance of larvae collected on each date

I collected 2,120 juvenile fishes representing 14 families in light traps during the 2001 and 2002 seasons (Table 4). For both years, atherinids (41.6%, 29.5%) were the predominant group collected. Other dominant taxa in 2001 were mosquitofish *Gambusia affinis* (9.7%), bluegill *Lepomis macrochirus* (9.6%), and unidentified centrarchids (9.4%). In 2002, mosquitofish (15.0%), largemouth bass *Micropterus salmoides* (12.3%), bluegill (8.5%), and unidentified centrarchids (7.2%) were abundant.

A total of 2,156 larval fishes representing 3 families were collected in 78 push nets samples during the 2001 season (Table 3). The three taxa collected were clupeids (72.1%), centrarchids (27.5%), and atherinids (0.4%). In 2002, 54,788 larvae representing 7 families were collected in 303 larval push net samples (Table 3). As in 2001, predominant taxa were clupeids (84.9%) and centrarchids (13.9%), and lesser abundant taxa included catostomids (0.5%), crappie *Pomoxis* spp. (0.4%), and percids (0.2%).

Habitat

Larval fishes were distributed differently among nearshore, border, and open channels during early 2001 (March 26-May 23) when water levels were high and no vegetative cover was available (Table 5). During this time, preflexion centrarchids and cyprinids were significantly more abundant in nearshore habitats than in border areas (Figure 7). Although other less abundant larval taxa were not included in this statistical analysis, identical trends of horizontal distribution were observed for preflexion atherinids, catostomids, clupeids and postflexion atherinids, catostomids, centrarchids, and clupeids, with higher nearshore abundances (Table 6). Postflexion atherinids were equally abundant in inshore and border habitats.

Table 4. Number and percent of juvenile fishes collected in light traps during the 2001-2002 seasons.

TAXA	YEAR			
	2001		2002	
	TOTAL #	% TOTAL	TOTAL #	% TOTAL
Atherinidae				
<i>Menidia beryllina</i>	632	41.61	177	29.45
Centrarchidae				
<i>Lepomis macrochirus</i>	145	9.55	51	8.49
<i>Lepomis gulosus</i>	90	5.92	23	3.83
<i>Lepomis marginatus</i>	18	1.18	2	0.33
<i>Lepomis humilis</i>	18	1.18	1	0.17
<i>Lepomis punctatus</i>	3	0.20	1	0.17
<i>Lepomis</i> spp.	142	9.35	43	7.15
<i>Micropterus salmoides</i>	26	1.71	74	12.31
<i>Micropterus punctulatus</i>	2	0.13	0	0.00
<i>Micropterus</i> spp.	5	0.33	0	0.00
<i>Pomoxis</i> spp.	28	1.84	5	0.83
Poeciliidae				
<i>Gambusia affinis</i>	147	9.68	90	14.98
<i>Heterandria formosa</i>	94	6.19	4	0.67
<i>Poecilia latipinna</i>	1	0.07	0	0.00
Elassomatidae				
<i>Elassoma zonatum</i>	67	4.41	0	0.00
Percidae				
<i>Etheostoma fusiforme</i>	10	0.66	30	4.99
<i>Etheostoma</i> spp.	35	2.30	6	1.00
Syngnathidae				
<i>Syngnathus scovelli</i>	23	1.51	37	6.16
Cyprinidae				
<i>Opsopoeodus emiliae</i>	5	0.33	26	4.33
<i>Pimephales notatus</i>	4	0.26	0	0.00
<i>Cyprinus carpio</i>	0	0.00	15	2.50
<i>Cyprinidae</i> spp.	0	0.00	5	0.83
Clupeidae				
<i>Dorosoma cepedianum</i>	7	0.46	2	0.33
Moronidae				
<i>Morone</i> spp.	5	0.33	0	0.00
Fundulidae				
<i>Fundulus chrysotus</i>	4	0.26	7	1.16
Engraulidae				
<i>Anchoa mitchelli</i>	3	0.20	0	0.00
Aphredoderidae				
<i>Aphredoderus sayanus</i>	3	0.20	1	0.17
Ictaluridae				
<i>Ictalurus punctatus</i>	1	0.07	0	0.00
<i>Ameiurus natalis</i>	0	0.00	1	0.17
Lepisosteidae				
<i>Lepisosteus</i> spp.	1	0.07	0	0.00

Table 5. ANOVA results for preflexion and postflexion larvae distributions among habitats during the period of no cover (March 26-May 23, 2001) and the period of vegetative cover (June 14, 2001-July 22, 2002). *P* values are shown, and an * denotes significance for $\alpha=0.05$. Pre=Preflexion, Post=Postflexion.

Taxa	Stage	No Vegetative Cover			Vegetative Cover		
		Position	Depth	Cover	Position	Depth	Cover
Centrarchids	Pre	0.01*	0.79	—	<.01*	0.05*	0.08
	Post	NA	NA	—	0.05*	0.06	0.01*
Cyprinids	Pre	0.03*	0.05*	—	0.03*	0.09	0.12
Percids	Pre	NA	NA	—	<.01*	0.13	<.01*

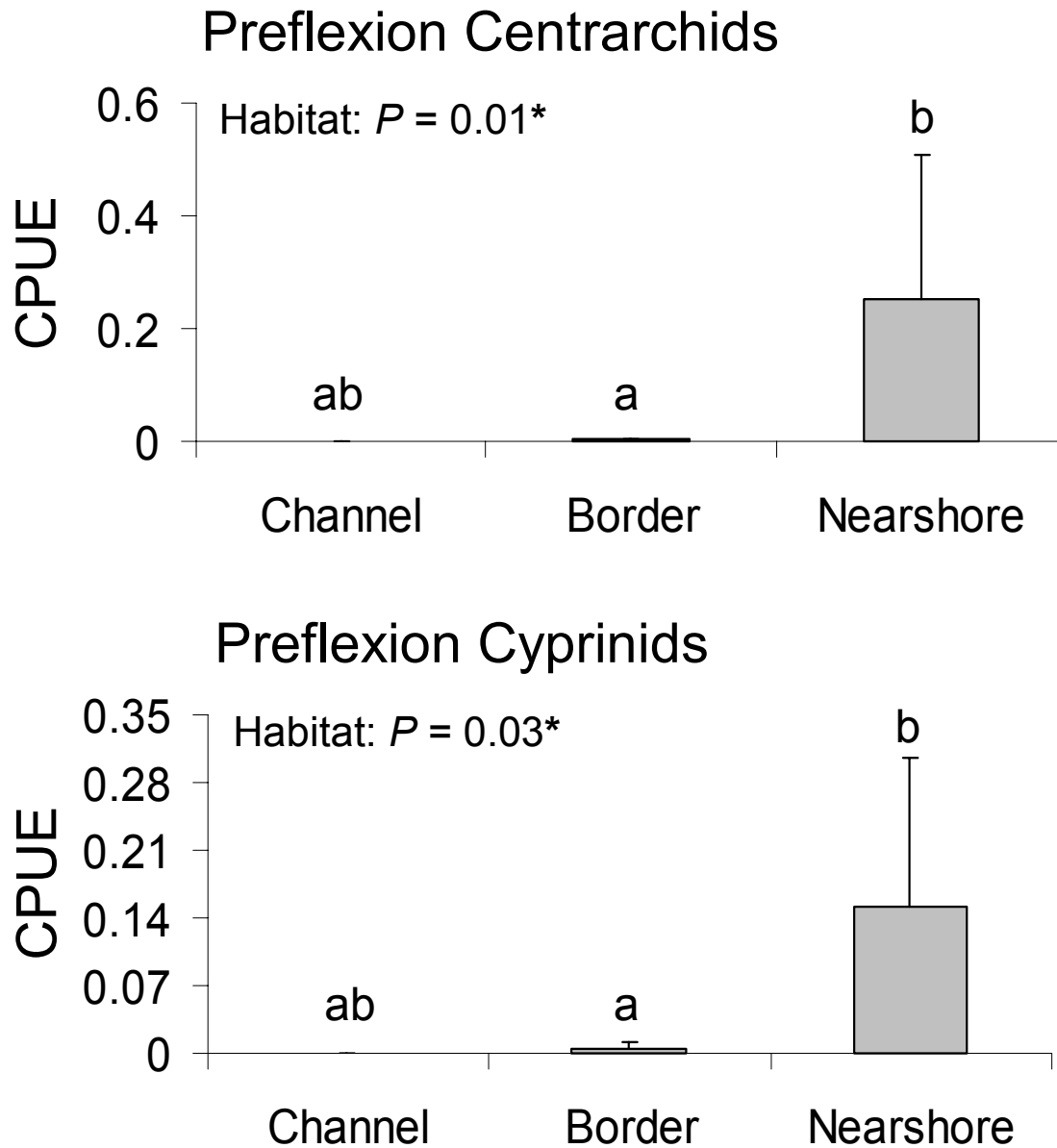


Figure 7. Comparison of CPUE (± 2 SE) and habitat (channel, border, hydrilla) during the period of high water and no vegetation cover (March 26-May 23, 2001) for preflexion centrarchids and cyprinids collected in surface and subsurface light traps. P -values with an * are significant ($\alpha = 0.05$). CPUE is specific to taxa and larval stage. Habitats not sharing a lowercase letter are significantly different.

Table 6. Numbers and distribution of larval fishes collected in light traps during the period of no vegetation (March 26-May 23, 2001). Pre=Preflexion, Post=Postflexion.

Taxa	Stage	Position			Depth	
		Channel	Border	Hydrilla	Bottom	Surface
Atherinids	Pre	0	0	3	0	3
	Post	0	15	13	7	21
Catostomids	Pre	3	26	255	0	284
	Post	0	2	32	0	34
Centrarchids	Pre	0	2	102	64	40
	Post	2	5	29	22	14
Clupeids	Pre	0	0	30	18	12
	Post	0	1	19	18	2
Cyprinids	Pre	0	4	110	107	7
	Post	1	0	3	3	1
Percids	Pre	0	0	0	0	0
	Post	0	0	6	4	2

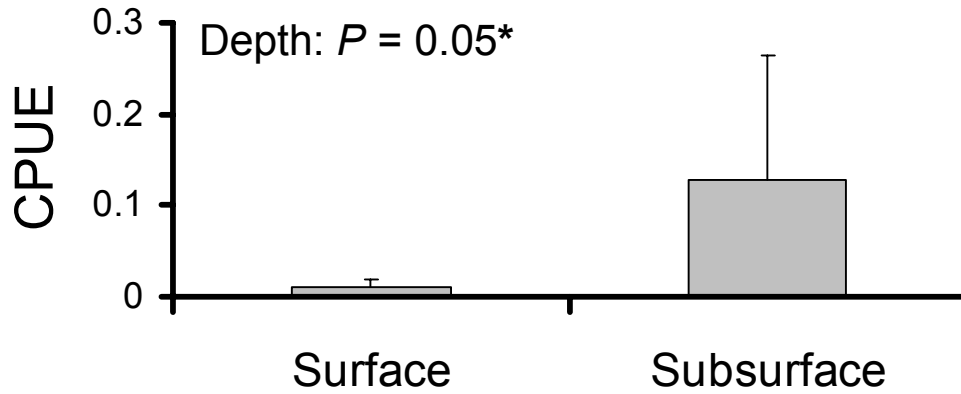
During the non-vegetative period, preflexion cyprinids had significantly higher abundances in subsurface traps (Figure 8). Even though not significant, preflexion and postflexion centrarchids, and postflexion clupeids, cyprinids, and percids exhibited a similar trend of higher abundance in subsurface habitats (Table 6). In contrast, preflexion atherinids and clupeids and postflexion atherinids exhibited a trend of higher abundance in surface habitats. Catostomids were collected only in surface traps on the first sampling date in 2001, however on this date subsurface traps were not used.

During the vegetative period (June 2001 - July 2002), I found preflexion centrarchids and percids had significantly higher abundances in hydrilla beds than in border and channel habitats, preflexion cyprinids were found in hydrilla more than in open channel habitats, and postflexion centrarchids were significantly more abundant in border habitats than in channel areas (Table 5; Figure 9). A similar trend of higher larval fish abundances in areas with hydrilla was observed for preflexion atherinids and catostomids, and postflexion atherinids and clupeids (Table 7). Postflexion percids were found in equal numbers in hydrilla and border habitats. During this period, there were no postflexion catostomids collected.

Vertically, preflexion centrarchids were found in significantly higher abundances in subsurface light traps (Figure 8). Although not significant, preflexion cyprinids and percids and postflexion centrarchids exhibited a trend of higher abundances in subsurface habitats (Table 7). For taxa not analyzed, preflexion clupeids and postflexion percids exhibited a trend of higher abundance in subsurface locations, preflexion catostomids and postflexion atherinids were found more commonly in surface locations, and preflexion atherinids and postflexion clupeids were found equally between depths.

Pre-Vegetation

Preflexion Cyprinids



Vegetation

Preflexion Centrarchids

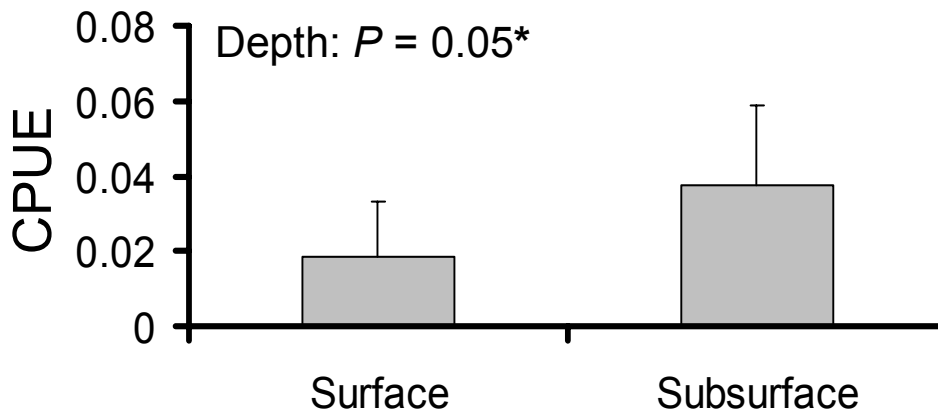


Figure 8. Comparison of CPUE (± 2 SE) and trap depth (depth) during periods of no vegetation cover (March 26-May 23, 2001) and vegetation cover (June 14, 2001-July 22, 2002) for preflexion centrarchids and cyprinids, and postflexion cyprinids and percids collected in surface and subsurface light traps. P -values with an * are significant ($\alpha = 0.05$). CPUE scales are specific to each taxa and larval stage.

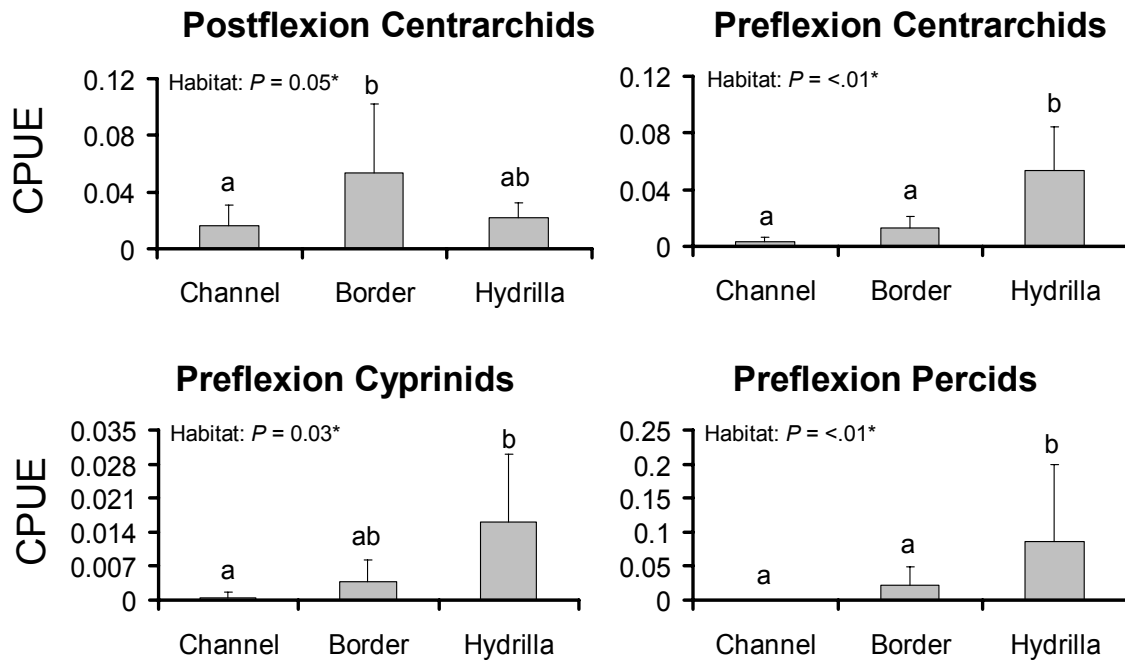


Figure 9. Comparison of CPUE (± 2 SE) and habitat (channel, border, hydrilla) during the period of vegetative cover (June 14, 2001-July 22, 2002) for preflexion centrarchids, cyprinids and percids, and postflexion centrarchids collected in surface and subsurface light traps. P -values with an * are significant ($\alpha = 0.05$). CPUE scales are specific to each taxa and larval stage. Habitats not sharing a lowercase letter are significantly different.

Table 7. Numbers and distribution of larval fishes collected in light traps during the period with vegetation (June 14, 2001-July 22, 2002). Pre=Preflexion, Post=Postflexion.

Taxa	Stage	Position			Depth		Cover		
		Channel	Border	Hydrilla	Bottom	Surface	High	Low	No
Atherinids	Pre	0	0	27	12	15	6	5	16
	Post	1	4	15	3	17	2	6	12
Catostomids	Pre	0	8	57	7	58	0	1	64
	Post	0	0	0	0	0	0	0	0
Centrarchids	Pre	5	44	178	148	79	87	37	103
	Post	25	168	71	189	75	34	21	209
Clupeids	Pre	1	14	7	16	6	16	1	5
	Post	7	9	13	14	15	6	1	22
Cyprinids	Pre	1	13	46	45	15	13	13	34
	Post	0	1	0	0	1	0	1	0
Percids	Pre	0	22	101	94	29	6	0	117
	Post	0	7	6	13	0	4	2	7

Cover preferences varied among larvae, as preflexion percids and postflexion centrarchids were found in greater abundances in open areas (Table 5; Figure 10). A similar trend was found for preflexion cyprinids, while postflexion centrarchids tended to occur in higher abundances in no cover areas. A similar trend of higher abundances in no cover areas was found for preflexion atherinids and catostomids and postflexion atherinids, clupeids, and percids (Table 7).

Hypoxia

Larval fish CPUE in light traps fluctuated in conjunction with river stage and DO levels during both sampling years (Figure 11). When river stages were high, DO levels decreased, and low river stages typically corresponded to high DO levels. Accordingly, high DO levels were concurrent with higher larval fish abundances and low DO levels corresponded with low CPUE of larvae in light trap samples.

Chi-square analyses revealed significant associations between larval fish abundance and dissolved oxygen levels (hypoxic or normoxic), which varied depending on trap position (channel, border, hydrilla), depth (surface and subsurface), and larval stage (pre- and postflexion)(Table 6; Figures 12, 13, 14). Under hypoxic conditions in hydrilla beds, postflexion clupeids ($\chi^2 = 6.85$) were more abundant than expected and preflexion centrarchids ($\chi^2 = 7.52$) were less abundant than expected, however under normoxic conditions in hydrilla beds, postflexion percids ($\chi^2 = 24.29$) were more abundant than expected. In subsurface hypoxic hydrilla beds, postflexion clupeids were more abundant than expected ($\chi^2 = 6.85$). In hypoxic border habitats, preflexion cyprinids ($\chi^2 = 70.17$) and preflexion centrarchids ($\chi^2 = 24.54$) occurred in higher abundances than expected.

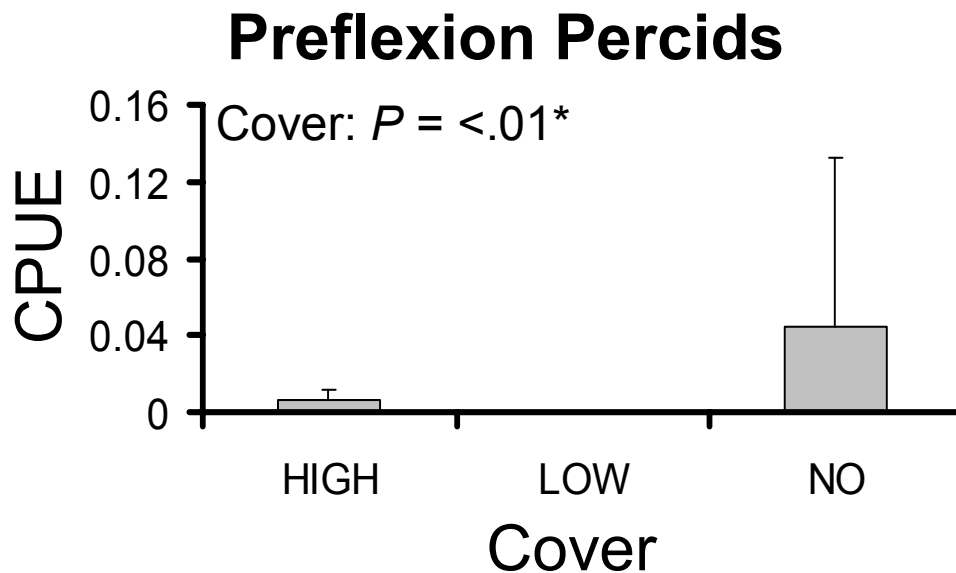
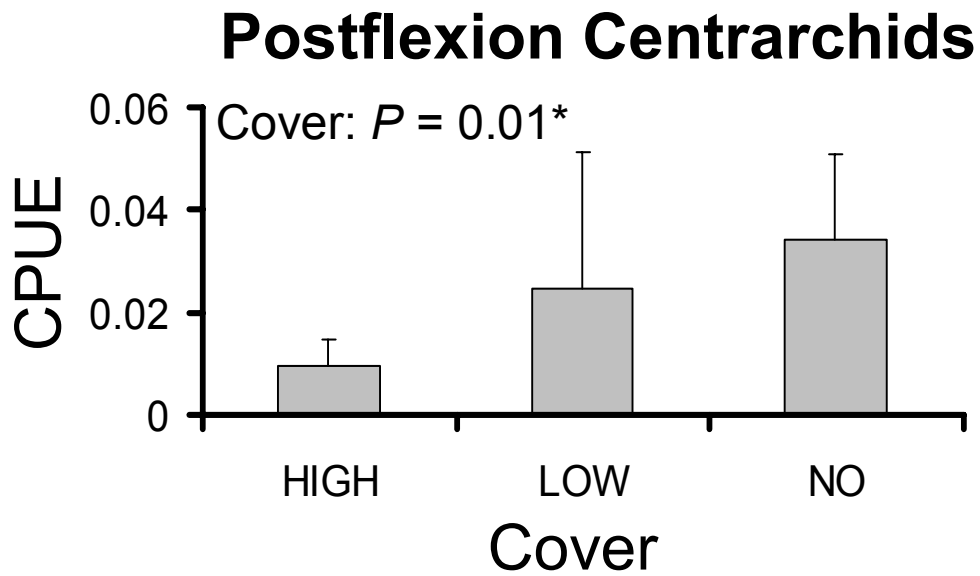


Figure 10. Comparison of CPUE (± 2 SE) and vegetative cover (high, low, and no) for preflexion percids and postflexion centrarchids from June 14, 2001 to July 22, 2002. P -values with an * are significant ($\alpha = 0.05$). CPUE scales are specific to each taxa.

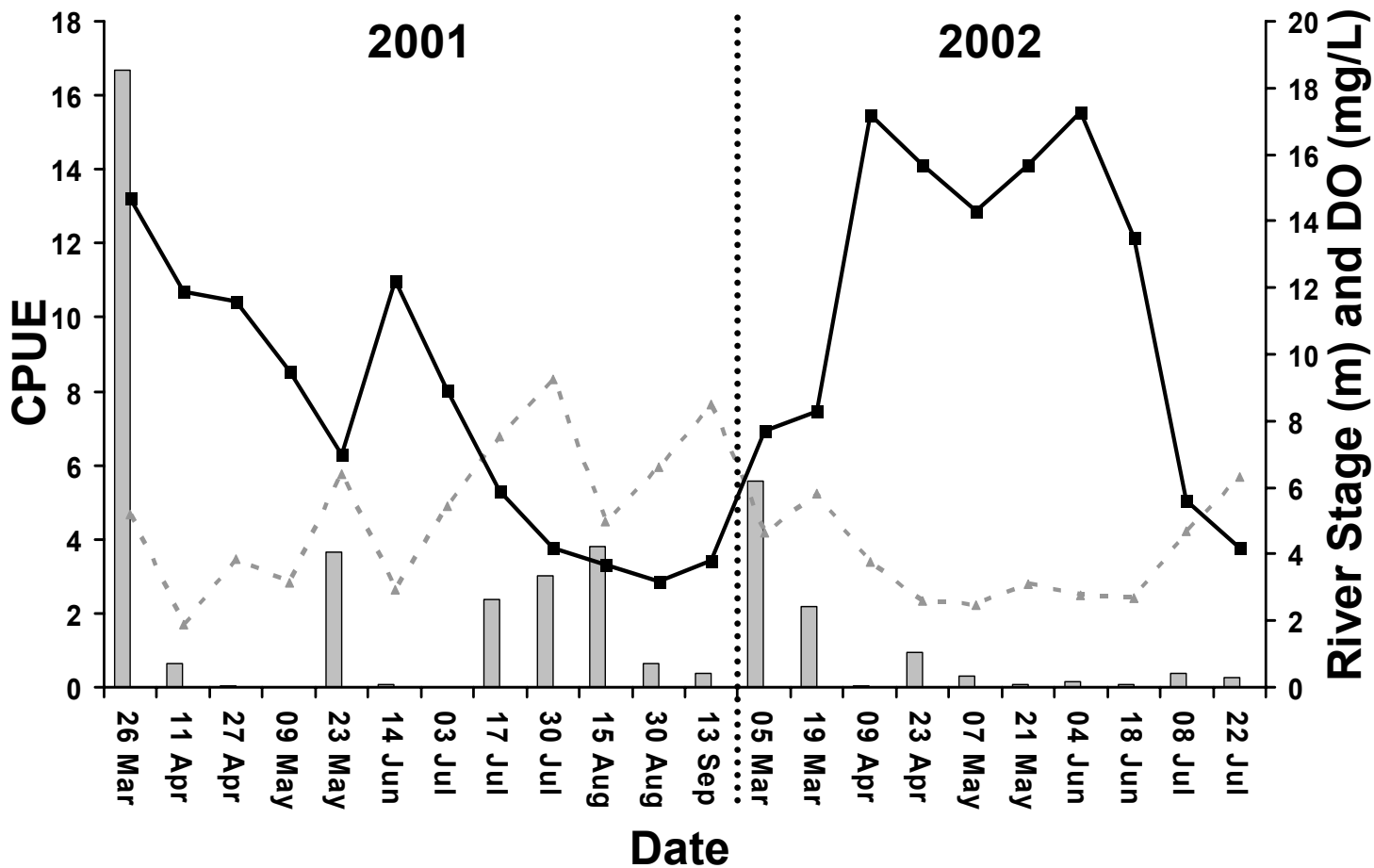


Figure 11. Larval fish CPUE compared with mean river stage (m) and DO (mg/L) concentration for sampling dates in 2001 and 2002. The continuous line represents mean river stages, the dashed line represents mean DO concentrations, and columns represent larval fish CPUE collected with light traps.

Table 8. Chi-square analyses of the observed and expected (in parentheses) differences in habitat use in hypoxic and normoxic areas for abundant taxa collected in light trap samples during periods of environmental hypoxia. Pre=Preflexion, Post=Postflexion, H=Hypoxic, N=Normoxic. Preflexion Atherinids and postflexion atherinids and centrarchids were removed from the analysis because they were never found in hypoxic areas.

Taxa	Stage	DO	Channel		Border		Hydrilla		χ^2	<i>P</i>
			Subsurface	Surface	Subsurface	Surface	Subsurface	Surface		
Centrarchids	Pre	H	0.5 (0.4)	0.5 (0.3)	3.7 (1.2)	6.6 (1.2)	15.1 (15.3)	0.5 (8.5)	41.2	<0.001
		N	3.2 (3.3)	2.6 (2.8)	8.5(10.9)	5.2(10.6)	136.0(135.9)	83.7(75.7)		
Clupeids	Pre	H	0.5 (0.8)	0.5 (0.8)	0.5 (5.0)	0.5 (0.8)	21.9 (27.8)	101.4(90.3)	27.9	<0.001
		N	0.5 (0.3)	0.5 (0.3)	6.1 (1.6)	0.5 (0.3)	15.0 (9.2)	18.6(29.7)		
	Post	H	0.5 (0.3)	0.5 (0.8)	0.5 (0.8)	0.5 (0.3)	5.6 (1.9)	0.5 (4.0)	14.4	0.013
		N	0.5 (0.7)	2.6 (2.3)	2.4 (2.1)	0.5 (0.7)	1.6 (5.3)	14.3(10.8)		
Cyprinids	Pre	H	0.5 (0.1)	0.5 (0.1)	0.5 (0.7)	6.6 (0.5)	5.6 (12.5)	0.5 (0.4)	85.2	<0.001
		N	0.5 (0.9)	0.5 (0.9)	8.6 (8.4)	0.5 (6.6)	162.8(155.9)	4.8 (4.9)		
	Post	H	0.5 (0.2)	0.5 (0.2)	0.5 (0.2)	0.5 (0.2)	3.1 (4.4)	0.5 (0.2)	2.6	0.760
		N	0.5 (0.8)	0.5 (0.8)	0.5 (0.8)	0.5 (0.8)	16.1 (14.8)	0.5 (0.8)		
Percids	Post	H	0.5 (0.9)	0.5 (0.9)	0.5 (0.9)	0.5 (0.9)	67.5 (63.7)	0.5 (2.5)	42.4	<0.001
		N	0.5 (0.1)	0.5 (0.1)	0.5 (0.1)	0.5 (0.1)	0.5 (4.3)	2.2 (0.2)		

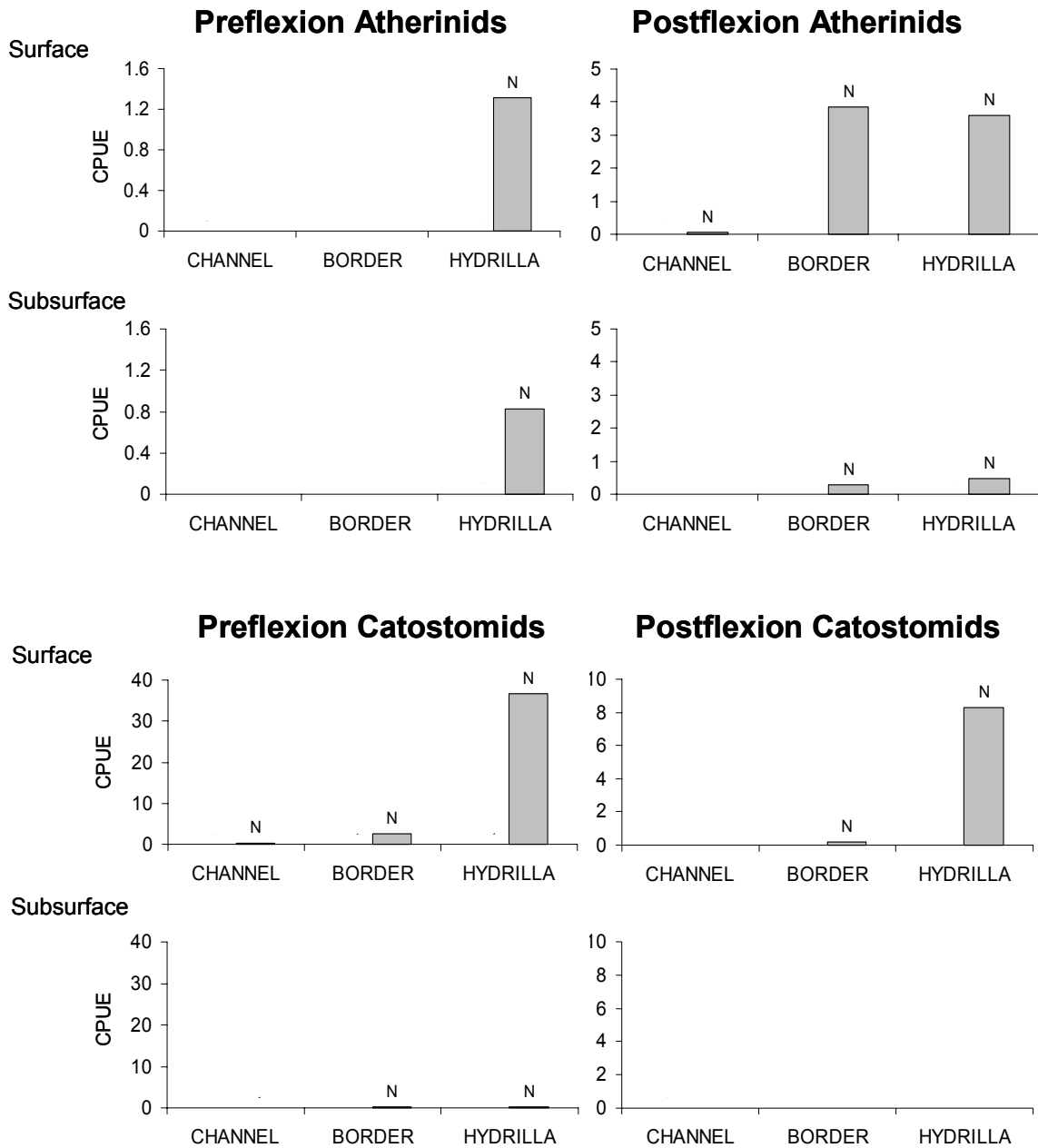


Figure 12. Comparison of CPUE (larvae per trap hour), habitat type, depth, and DO concentrations for the six most abundant fish taxa found in larval light traps during their respective spawning seasons. N=Normoxic.

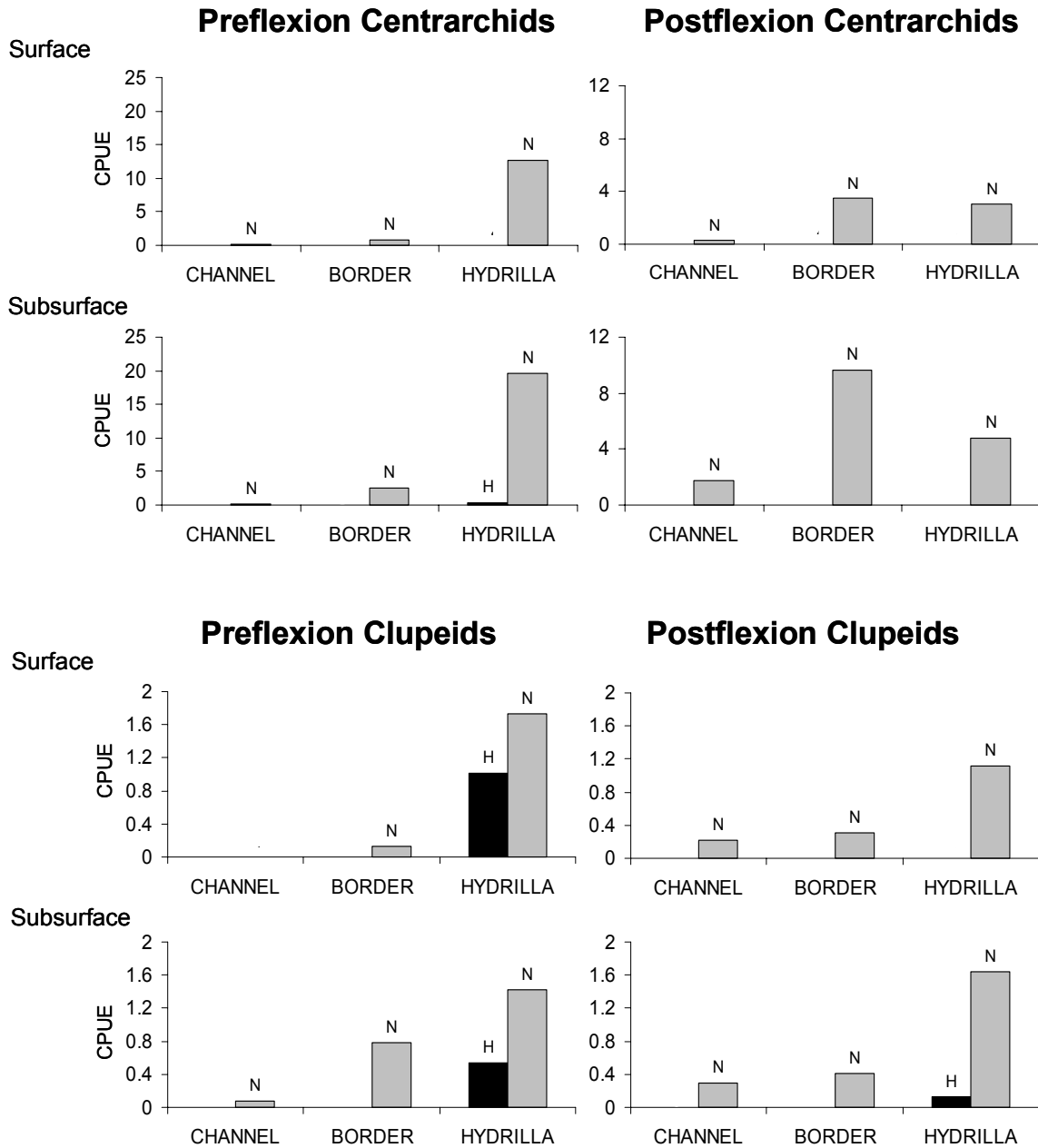


Figure 13. Comparison of CPUE (larvae per trap hour), habitat type, depth, and DO concentrations for the six most abundant fish taxa found in larval light traps during their respective spawning seasons. N=Normoxic H=Hypoxic.

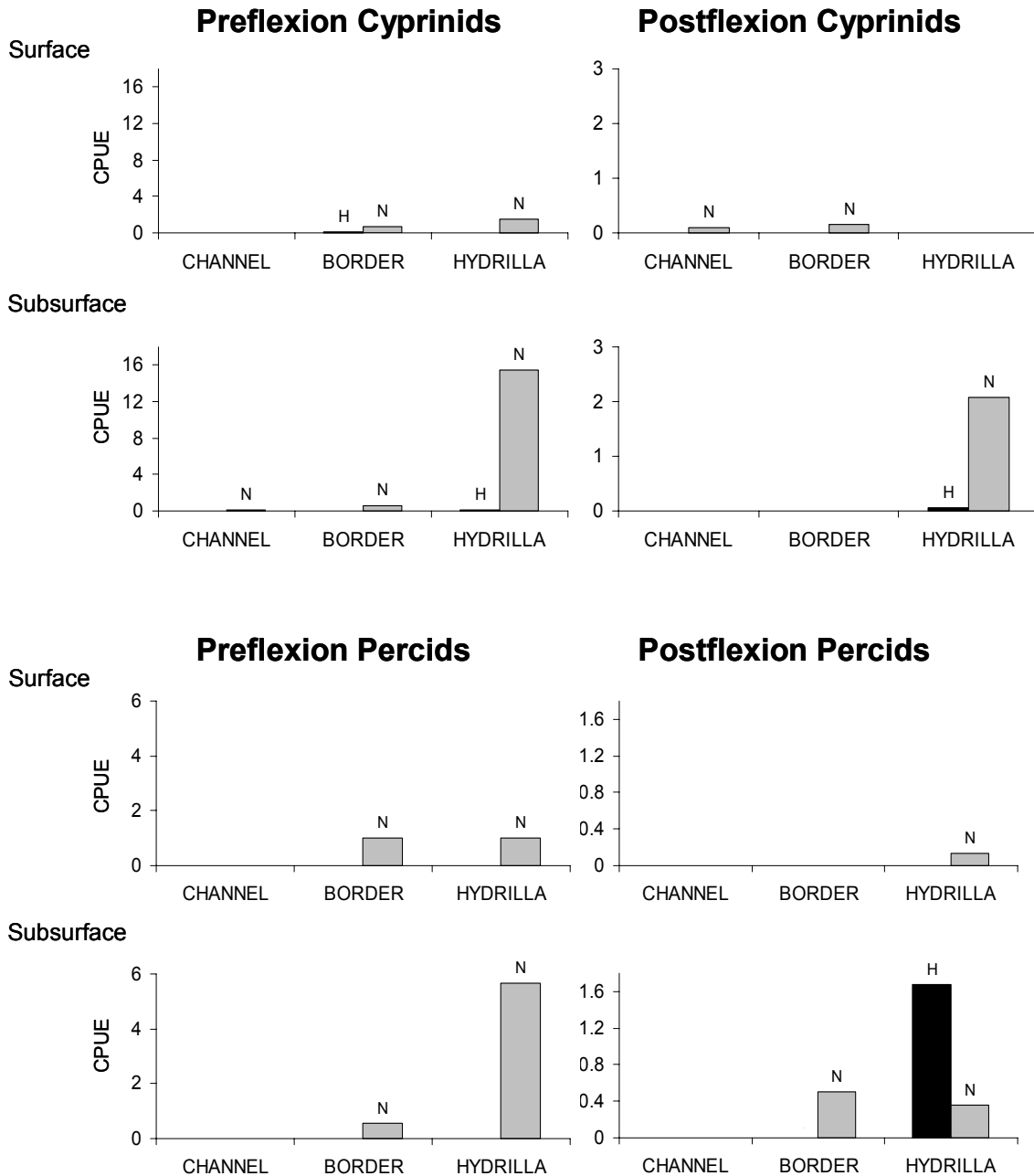


Figure 14. Comparison of CPUE (larvae per trap hour), habitat type, depth, and DO concentrations for the six most abundant fish taxa found in larval light traps during their respective spawning seasons. N=Normoxic H=Hypoxic.

Preflexion atherinids and postflexion atherinids and centrarchids were only collected from normoxic areas during the period of hypoxia in the ARB.

DISCUSSION

Physicochemistry

Physicochemistry during this study was similar to other river-floodplain systems (Junk et al. 1989, Bayley 1995) and previous studies conducted in the ARB (Bryan and Sabins 1979, Fontenot et al. 2001). As floodwaters and temperature rose, DO concentrations decreased, resulting in hypoxic areas throughout the study area, and as floodwaters receded, primary production was able to exceed microbial respiration and DO concentrations increased, returning hypoxic areas to normoxic conditions. Physicochemistry differed between study years, with higher DO, temperature, specific conductance and pH, and lower Secchi disk depth in 2001 than 2002. Because physicochemistry is strongly related to water level during flood events in river-floodplain systems (Bryan and Sabins 1979, Bayley 1995), the observed physicochemical differences between study years were primarily due to differences in flood pulse timing. These differences resulted in twice as many larval fishes and 1.5 times the number of juvenile fishes collected in March through July light traps in 2001.

Long-lasting flood pulses in river-floodplain systems have led to developmental adaptations and strategies of organisms that allow efficient utilization of habitats and resources in floodplains (Junk et al. 1989), and fishes that utilize floodplains dominate the biomass and production in seasonally flooded systems (Bonetto et al. 1969; Welcomme 1979; Bayley 1981, 1983; Goulding 1981; Littlejohn et al. 1985). Fishes in river-floodplain systems depend on rising floods for feeding and shelter (Bayley 1983; Holland et al. 1983; Welcomme 1985), spawning (Bayley 1995, Sparks et al. 1995), and nursery habitat and nutrients for larval and juvenile fishes (Scott and Nielsen 1989;

Brown and Coon 1994; Bayley 1995; Sparks 1995). Deviations from the timing of annual flood pulses (as in 2002) can be considered as ecological disturbances, which disrupt the structure or function of communities at ecosystem or population levels (Sparks et al. 1990), and any shift in a flood-pulse may be extremely harmful to species that rely on spring inundation of the floodplain for spawning (Sparks 1995) and nursery habitat.

In February, 2002, fishes staging to spawn were faced with dropping water levels that deviated from the 42-year mean water level, which reduced productive spawning and nursery habitat available to fishes. Additionally, aquatic macrophytes took advantage of this early low water period by establishing dense beds that persisted during rising water levels in late March and early April. The reduction in water quality associated with dense beds of hydrilla (Colle and Shireman 1980, Langeland et al. 1996) reduced available nursery habitat that most larvae need to survive and grow. The delayed flood pulse in 2002 also coincided with higher spring temperatures, which would lower the critical oxygen tension for larvae in hypoxic environments, which could affect their growth and survival. After the flood peak, water levels remained high through May and June, delaying primary productivity by allowing microbial respiration in backwater areas to continue at increased levels and acting as a source for hypoxic backwaters to displace or mix with normoxic bayous and canals, resulting in declines in DO levels. Reduced DO concentrations result in decreased forage for growth, and can elicit varying responses in larvae, some compensatory, others pathological (Rombough 1988). Collectively, these factors may have contributed to lower larval fish CPUE rates in 2002.

Although deviations in flood-pulse magnitude and timing can negatively impact certain species, disturbances of such a nature may result in high diversity among species as evidenced by the observed changes in dominant larval and juvenile taxa collected in 2001 and 2002. Percids represented less than one percent of all larvae collected in 2001, but were the dominant taxa collected in 2002. Juvenile elassomatids represented over four percent of juveniles collected in 2001, but were absent from 2002 samples, and juvenile largemouth bass collected increased by nearly 2.5 times in 2002.

Larval Fish Assemblage Structure

Larval fish species composition for this study was similar to other collections made in the lower Mississippi River Basin (Finger and Stewart 1987, Baker et al. 1991, Killgore and Baker 1996), and was similar to the assemblage structure reported for 1994 and 1995 in the ARB (Fontenot et al. 2001). In 2001 and 2002, taxa collected in push net and light trap samples were similar, except for aphredoderids and fundulids, which were only collected in light trap samples. Fontenot et al. (2001) reported aphredoderids as the third most abundant taxa collected in 1994 and 1995 push net samples in the ARB. Sampling a month earlier in 2002, encompassing more of the aphredoderid spawning season, may have resulted in the higher numbers collected in push net samples. Fundulids, on the other hand, are found mostly in conjunction with shallow water in or near macrophyte beds (Robison and Buchanan 1988) making them less vulnerable to push nets.

Dominant taxa were similar between sampling gears except for clupeids, which were the most abundant taxa collected in push net samples and only the fifth most abundant taxa collected in light traps. Differences in gear selectivity were apparent in the low

number of juvenile fishes collected in push-net samples. Additionally, light traps captured 40 times the total number of juveniles collected in push net samples during 2001 and 2002.

Habitat

No Vegetation. The higher abundances of preflexion centrarchids and cyprinids associated with shoreline would likely have been more evident for other taxa collected if additional samples had been made during this period. Other researchers have observed the relationship between larval abundance and distance from shore in western (the upper Colorado River; Carter et al. 1986) and midwestern (Oklahoma; Harvey et al. 1991) streams, and in southeastern floodplain swamps (Paller 1987). Preferred spawning locations for centrarchids, clupeids, and cyprinids may concentrate preflexion larvae in shallow inshore habitats. Nonvegetated inshore areas may serve as refugia from vertebrate predators, or provide easier access to surface and subsurface food sources for larvae (e.g., zooplankton, rotifers, etc.).

The higher abundance of preflexion cyprinids in subsurface traps in the ARB is counter to the findings of lower larval cyprinid abundance in backwater areas of the upper Mississippi River (Sheaffer and Nickum 1986). These researchers reported larval cyprinids to be more abundant in surface collections, while juvenile cyprinids were more common in subsurface areas. Their study did not distinguish preflexion from postflexion, which may account for differences in depth association.

Vegetation. The preference of fish larvae (e.g., preflexion centrarchids, cyprinids percids, atherinids and catostomids, and postflexion centrarchids, atherinids and clupeids) for inshore-vegetated areas is likely associated with adult inshore spawning over

vegetation or other nearshore structures, and the predisposition of larvae to be associated with edge habitats, which provide refugia, and foraging opportunities. Although macroinvertebrate predation may increase in plant beds, subsurface macrophyte densities are generally lower than surface canopy densities, and may provide a better refuge from macroinvertebrate and vertebrate predators. In addition, in southeastern floodplain swamps, larvae have been shown to consume mostly copepod nauplii and chironomids (Paller 1987), and densities of many invertebrates have been reported to be higher in macrophyte beds versus open areas (Engel 1985; Thorp 1988).

The only larvae found to prefer surface or subsurface habitats was preflexion centrarchids. The higher abundances observed for preflexion sunfishes in subsurface light trap locations in this study, differs from a study in upper Mississippi River backwaters that showed sunfish larvae to be equally abundant at various depths (Sheaffer and Nickum 1986).

During the vegetative period, larval fish distribution varied with the density of vegetation (high, low, and no vegetative-cover areas), and several taxa (e.g., preflexion percids and postflexion centrarchids) exhibited higher abundances in no cover areas. These small open water areas in an otherwise dense hydrilla bed may function like a border-channel area, although may provide more protection from predators.

Larval and juvenile fishes have been reported to be more closely associated with macrophyte habitats in southeastern floodplain swamps (Paller 1987), however diel differences in larval fish abundance could explain the observed habitat differences of larvae in my study. In southeastern swamps larval fish CPUE ratios between nearshore and open channel habitats have been shown to decrease from 160:1 to 13:1 from day to

night (Paller 1987). Larval fishes have also been shown to be a significant component of nighttime drift, but actively seek shelter in macrophyte beds during the day (Mueller 1978). Larval predator avoidance or nighttime disorientation (Pavlov et al. 1968) could explain the observed habitat use pattern in my study. Larval fishes could be using vegetation beds as refugia from vertebrate predators during the day and moving into open water at night to feed when there are decreased chances of predator detection. Seining or pumping in vegetation beds, borders, and channels during the day and night may reveal diel cover-associated differences for larval fishes in the ARB.

Hypoxia

Physicochemistry in the ARB is primarily influenced by flood pulse and secondarily by aquatic macrophytes. Thick stands of macrophytes can complicate low DO problems by creating hypoxic areas within vegetation beds through nighttime respiration (Sculthorpe 1985). Studies of DO and temperature within macrophytes beds have reported diel physicochemical fluctuations, with DO and temperature peaking just before dusk and reaching minimal levels near dawn (Westlake 1975, Dale and Gillespie 1978, Carpenter and Lodge 1986), and research in the ARB has revealed similar fluctuations of DO and temperature in thick stands of hydrilla (Colon-Gaud 2003).

The effects of hypoxia on larval fishes in the ARB could decrease basin-wide fisheries production by affecting growth and developmental rates, morphology, and behavior, which result in higher larval fish mortality (Rombough 1988). In both study years, high DO concentrations were associated with high larval fish abundances, and overall larval fish abundances in normoxic areas were 4.5 times greater than collections

abundance in hypoxic areas. Fontenot et al. (2001) also found similar trends in ARB larval fish abundance in main channel areas during periods of environmental hypoxia.

Because all physicochemical measurements in this study were taken at dusk when DO concentrations were peaking, larval fish abundance in normoxic traps may have been artificially lower than actual values. Traps that were placed in water with DO concentrations of 2-3 mg/L and categorized as normoxic during afternoon hours might have been subjected to extremely low nighttime DO concentrations (0-2 mg/L). The extent of this low DO period may explain the decreased abundance of larval fishes found in areas that were characterized as normoxic.

When sampling in 1994 and 1995 in the ARB, Fontenot et al. (2001) recognized that as hypoxic conditions were alleviated at a site, larvae were immediately present in collections, suggesting larvae were present throughout hypoxic periods but were not susceptible to push nets. Additionally, microhabitats of varying DO concentrations have been found to exist within dense macrophyte beds (Miranda et al. 2000). This horizontal, vertical, spatial, and temporal variability in oxygen over micro-scales in macrophyte beds may create areas suitable for fishes adjacent to hypoxic areas. If larvae in hypoxic areas were able to move into macrophytes beds and find these microhabitats, their chances of survival would greatly increase, and when DO concentrations returned to normoxic levels, the larvae could immediately move into open channel habitats, as previously observed (Fontenot et al. 2001). Although moving into thick vegetation increases macroinvertebrate predation, benefits of locating higher DO microhabitats within the macrophytes may greatly outweigh that of remaining in open channel areas where stress, reduced growth, or mortality may be greater. Initial findings with light traps indicate that

this may be what is occurring in hypoxic areas. Most of the larvae captured in hypoxic traps were found within border and hydrilla or nearshore habitats, with nearly three times greater CPUE in high cover areas where high DO microhabitats would likely occur.

I expected that larval fish abundances would be higher in normoxic areas, and that I would find higher larval abundances in vegetated areas, and lower abundances in subsurface habitats. This appears to be true for atherinids and postflexion centrarchids that were absent in hypoxic areas, and pre and postflexion cyprinids, preflexion centrarchids, and postflexion clupeids, which were more abundant in normoxic areas. In a previous ARB study (Fontenot et al. 2001), low abundances of centrarchids and clupeids were the only larvae collected in open-channel hypoxic areas. Similarly, during my study all taxa were absent from open-channel habitats in hypoxic areas, however centrarchids, clupeids, cyprinids, and percids were able to survive in hypoxic border and hydrilla areas. Similar to adult fishes, differential responses of larval fishes to hypoxic conditions have been shown to vary among taxa and developmental stage (Rombough 1988). Sensitivity of larvae to hypoxic conditions has been shown to increase after hatching and then decrease after gill development in smallmouth bass *Micropterus dolomieu* (Spoor 1977), Atlantic salmon *Salmo salar*, brook trout *Salvelinus fontinalis* (Bishai 1960), and Atlantic herring *Clupea harengus* larvae (De Silva and Tytler 1973). Even though these species were not collected in the present study, developmental changes in DO sensitivity could explain why preflexion larvae were better able to survive hypoxic conditions in the ARB. Although no specific morphological adaptation or physiological mechanism has been described to explain how postflexion larvae of some taxa were able to survive hypoxic conditions, this is certainly known for many adult taxa.

For example, percids, which consist predominantly of the swamp darter *Etheostoma fusiforme*, as the common name implies, are well adapted to low DO conditions, and adults are commonly collected from hypoxic areas throughout the ARB.

Contrary to my expectations, most larvae found in hypoxic areas were associated with subsurface habitats in hydrilla beds. Risks of macroinvertebrate predation in canopies may be high enough to force larvae into subcanopy habitats where DO concentrations are lower. However, DO microhabitats associated with subcanopies or the canopy/subcanopy interface may allow larvae to find suitable habitat to survive hypoxic periods. When hypoxic conditions alleviate, larvae would then be able to escape the higher macroinvertebrate predation pressures in hydrilla beds and reenter open channel habitats.

CONCLUSIONS

Differences in annual larval fish abundances and species composition observed in the present study indicate that flood-pulse timing is important to fisheries production in the Atchafalaya River basin. Higher abundances of larval fishes in nearshore areas regardless of cover conditions and DO levels indicate that overall cover is relatively unimportant to larval fish abundance during nighttime hours. However, the presence of larval fishes (centrarchids, clupeids, cyprinids, and percids) in nearshore areas under hypoxic conditions shows the importance of hydrilla beds as oxygen refugia. Even though some larval fishes can survive hypoxic periods, total abundances of larval fishes under these conditions are severely reduced. For a clearer understanding of larval fish distributions in the Atchafalaya River basin, further investigations into the daytime distribution of larval fishes, documentation of larval fish predation and foraging behavior, and microhabitat dissolved oxygen dynamics in macrophyte beds are needed.

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APPENDIX A: FISHES COLLECTED IN LIGHT TRAPS

Physicochemical variables and fishes collected in light traps for each date, site, position, and trap depth during 2001 and 2002. Variable, site, position, larval stage, and taxa abbreviations are located on the first two pages.

VARIABLES

Depth	Trap Depth (m)
Temp	Temperature (°C)
DO	Dissolved Oxygen (mg/L)
Cond	Specific Conductance (µmhos/cm)
pH	pH
Secchi	Secchi Dick Depth (m)
Cov	Vegetative Cover Percentage
Suc	Successful Trap Retrieval
Time	Time Trap in Water (hrs)
Num	Total Number of Larvae Collected

SITES

GL1	Grand Lake-1
GL2	Grand Lake-2
LBL	Little Bayou Long
WF	West Fork Bayou

POSITIONS

RH	Hydrilla Right
RB	Border Right
C	Channel
LB	Border Left
LH	Hydrilla Left

STAGES

1	Preflexion Larval Fishes
2	Flexion Larval Fishes
3	Postflexion Larval Fishes
4	Unidentified Stage of Larval Fish
5	Juvenile Fishes

TAXA

AMI	<i>Anchoa Mitchellii</i>
BLG	<i>Lepomis macrochirus</i>
BLU	<i>Pimephales notatus</i>

CAP	<i>Cyprinus carpio</i>
CCF	<i>Ictalurus punctatus</i>
CEN	Centrarchidae
CLU	Clupeidae
CRS	<i>Fundulus Chrysotus</i>
CYP	Cyprinidae
DOL	<i>Lepomis marginatus</i>
DOR	<i>Dorosoma spp.</i>
ELZ	<i>Elassoma zonatum</i>
ETH	<i>Etheostoma spp.</i>
GAM	<i>Gambusia affinis</i>
ICT	<i>Ictiobus spp.</i>
LEK	<i>Heterandria formosa</i>
LEP	<i>Lepomis spp.</i>
LMB	<i>Micropterus salmoides</i>
MEN	<i>Menidia beryllina</i>
MIC	<i>Micropterus spp.</i>
MOR	<i>Morone spp.</i>
ORS	<i>Lepomis humilis</i>
PER	Percidae
PIP	<i>Syngnathus scovelli</i>
POM	<i>Pomoxis spp.</i>
PRP	<i>Aphredoderus sayanus</i>
PUG	<i>Opsopoeodus emiliae</i>
SAM	<i>Poecilia formosa</i>
SPB	<i>Micropterus punctulatus</i>
SPS	<i>Lepomis punctatus</i>
SWP	<i>Etheostoma fusiforme</i>
UID	Unidentified spp.
WAM	<i>Lepomis gulosus</i>
YEB	<i>Ameiurus natalis</i>

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	CAP	1	1
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	ICT	1	8
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	ICT	2	17
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	POM	1	1
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	ELZ	5	1
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	MIC	5	1
3/26/2001	GL1	RB	0	17.13	6.72	0.230	6.87	.	0	Y	3.25	0	0	0
3/26/2001	GL1	C	0	17.20	6.03	0.234	6.84	.	0	Y	3.25	0	0	0
3/26/2001	GL1	LB	0	17.25	5.70	0.234	6.79	.	0	Y	3.25	0	0	0
3/26/2001	GL1	LH	0	17.29	5.36	0.234	6.73	.	0	Y	3.25	ICT	2	29
3/26/2001	GL1	LH	0	17.29	5.36	0.234	6.73	.	0	Y	3.25	ICT	3	25
3/26/2001	GL1	LH	0	17.29	5.36	0.234	6.73	.	0	Y	3.25	DOR	5	1
3/26/2001	GL1	LH	0	17.29	5.36	0.234	6.73	.	0	Y	3.25	ICT	4	2
3/26/2001	GL1	RH	0	17.05	7.41	0.225	6.90	.	0	Y	3.25	0	0	0
3/26/2001	GL1	RB	0	17.13	6.72	0.230	6.87	.	0	Y	3.25	0	0	0
3/26/2001	GL1	C	0	17.20	6.03	0.234	6.84	.	0	Y	3.25	0	0	0
3/26/2001	GL1	LB	0	17.25	5.70	0.234	6.79	.	0	Y	3.25	0	0	0
3/26/2001	GL1	LH	0	17.29	5.36	0.234	6.73	.	0	Y	3.25	ICT	1	1
3/26/2001	GL1	LH	0	17.29	5.36	0.234	6.73	.	0	Y	3.25	DOR	5	1
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	CAP	1	2
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	ICT	1	85
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	ICT	2	113
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	ICT	3	5
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	POM	2	2
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	DOR	5	1
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	ICT	4	1
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	0	0	0
3/26/2001	GL2	C	0	16.69	5.47	0.245	6.80	.	0	Y	12.00	0	0	0
3/26/2001	GL2	LB	0	16.62	5.21	0.244	6.82	.	0	Y	12.00	0	0	0
3/26/2001	GL2	LH	0	16.54	4.95	0.243	6.83	.	0	Y	12.00	ICT	2	2
3/26/2001	GL2	LH	0	16.54	4.95	0.243	6.83	.	0	Y	12.00	ICT	3	1
3/26/2001	GL2	RH	0	16.59	4.84	0.244	6.72	.	0	Y	12.00	0	0	0
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	CAP	1	2
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	CAP	3	1
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	ICT	1	17
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	ICT	2	9
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	ICT	3	2
3/26/2001	GL2	RB	0	16.64	5.16	0.245	6.76	.	0	Y	12.00	POM	3	1
3/26/2001	GL2	C	0	16.69	5.47	0.245	6.80	.	0	Y	12.00	ICT	1	3
3/26/2001	GL2	C	0	16.69	5.47	0.245	6.80	.	0	Y	12.00	DOR	5	1
3/26/2001	GL2	LB	0	16.62	5.21	0.244	6.82	.	0	Y	12.00	0	0	0
3/26/2001	GL2	LH	0	16.54	4.95	0.243	6.83	.	0	Y	12.00	0	0	0
3/26/2001	WF	RH	0	17.35	5.34	0.247	6.71	.	0	Y	11.50	0	0	0
3/26/2001	WF	RB	0	17.34	5.28	0.247	6.71	.	0	Y	11.50	0	0	0
3/26/2001	WF	C	0	17.32	5.21	0.246	6.71	.	0	Y	11.50	0	0	0
3/26/2001	WF	LB	0	17.35	5.21	0.246	6.71	.	0	Y	11.50	PRP	5	2
3/26/2001	WF	LH	0	17.37	5.20	0.245	6.70	.	0	Y	11.50	0	0	0
3/26/2001	LBL	RH	0	17.30	4.98	0.243	6.70	.	0	Y	11.17	CYP	2	1
3/26/2001	LBL	RH	0	17.30	4.98	0.243	6.70	.	0	Y	11.17	ICT	3	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
3/26/2001	LBL	RH	0	17.30	4.98	0.243	6.70	.	0	Y	11.17	POM	3	1
3/26/2001	LBL	RH	0	17.30	4.98	0.243	6.70	.	0	Y	11.17	ELZ	5	3
3/26/2001	LBL	RH	0	17.30	4.98	0.243	6.70	.	0	Y	11.17	MIC	5	3
3/26/2001	LBL	RB	0	17.36	5.16	0.244	6.71	.	0	Y	11.17	ELZ	5	3
3/26/2001	LBL	RB	0	17.36	5.16	0.244	6.71	.	0	Y	11.17	MIC	5	1
3/26/2001	LBL	C	0	17.42	5.34	0.244	6.71	.	0	Y	11.17	CYP	3	1
3/26/2001	LBL	LB	0	17.41	5.34	0.245	6.73	.	0	Y	11.17	0	0	0
3/26/2001	LBL	LH	0	17.40	5.33	0.245	6.74	.	0	Y	11.17	0	0	0
4/11/2001	GL1	LH	0	24.22	6.05	0.235	6.97	0.28	0	Y	15.20	0	0	0
4/11/2001	GL1	LH	1	24.05	5.22	0.235	6.90	0.28	0	Y	15.20	0	0	0
4/11/2001	GL1	LB	0	23.85	6.67	0.234	7.01	.	0	N	15.35	0	0	0
4/11/2001	GL1	LB	1	22.99	6.00	0.232	6.97	.	0	Y	15.20	0	0	0
4/11/2001	GL1	C	0	23.48	7.28	0.233	7.04	0.28	0	Y	15.18	0	0	0
4/11/2001	GL1	C	1	21.93	6.77	0.228	7.04	0.28	0	Y	15.18	0	0	0
4/11/2001	GL1	RB	0	23.57	7.10	0.233	7.03	.	0	Y	15.15	0	0	0
4/11/2001	GL1	RB	1	22.25	6.52	0.230	7.02	.	0	Y	15.17	0	0	0
4/11/2001	GL1	RH	0	23.65	6.92	0.233	7.01	0.26	0	Y	15.15	0	0	0
4/11/2001	GL1	RH	1	22.57	6.27	0.231	7.00	0.26	0	Y	15.15	0	0	0
4/11/2001	GL2	LH	0	25.22	2.85	0.249	6.74	0.51	0	Y	14.50	ETH	3	2
4/11/2001	GL2	LH	0	25.22	2.85	0.249	6.74	0.51	0	Y	14.50	POM	3	1
4/11/2001	GL2	LH	1	21.79	6.29	0.229	6.89	0.51	0	Y	14.45	POM	5	3
4/11/2001	GL2	LB	0	25.28	2.62	0.251	6.74	.	0	N	14.50	0	0	0
4/11/2001	GL2	LB	1	22.95	3.45	0.239	6.78	.	0	Y	14.45	0	0	0
4/11/2001	GL2	C	0	25.34	2.39	0.253	6.73	0.73	0	Y	14.63	0	0	0
4/11/2001	GL2	C	1	24.11	0.60	0.249	6.67	0.73	0	Y	14.67	0	0	0
4/11/2001	GL2	RB	0	25.09	2.32	0.253	6.72	.	0	Y	14.45	0	0	0
4/11/2001	GL2	RB	1	24.22	0.81	0.253	6.65	.	0	Y	14.47	POM	1	1
4/11/2001	GL2	RB	1	24.22	0.81	0.253	6.65	.	0	Y	14.47	POM	3	1
4/11/2001	GL2	RB	1	24.22	0.81	0.253	6.65	.	0	Y	14.47	ELZ	5	1
4/11/2001	GL2	RB	1	24.22	0.81	0.253	6.65	.	0	Y	14.47	LMB	5	1
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	CYP	1	5
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	DOR	1	4
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	DOR	2	3
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	LEP	1	2
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	LMB	1	3
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	LMB	2	2
4/11/2001	GL2	RH	0	24.83	2.25	0.253	6.71	0.50	0	Y	14.45	POM	2	1
4/11/2001	GL2	RH	1	24.32	1.01	0.257	6.62	0.50	0	Y	14.43	0	0	0
4/11/2001	WF	LH	0	25.00	1.80	0.252	6.57	0.30	0	Y	1.95	0	0	0
4/11/2001	WF	LH	1	24.99	1.73	0.252	6.54	0.30	0	Y	1.92	ETH	3	2
4/11/2001	WF	LH	1	24.99	1.73	0.252	6.54	0.30	0	Y	1.92	ETH	5	11
4/11/2001	WF	LB	0	25.01	1.79	0.252	6.57	.	0	Y	1.98	0	0	0
4/11/2001	WF	LB	1	25.00	1.68	0.253	6.54	.	0	Y	1.95	0	0	0
4/11/2001	WF	C	0	25.01	1.77	0.252	6.56	0.40	0	Y	2.07	0	0	0
4/11/2001	WF	C	1	25.00	1.63	0.253	6.54	0.40	0	Y	2.08	0	0	0
4/11/2001	WF	RB	0	25.12	1.49	0.253	6.56	.	0	Y	2.00	0	0	0
4/11/2001	WF	RB	1	25.12	1.38	0.253	6.53	.	0	Y	2.05	ELZ	5	1
4/11/2001	WF	RH	0	25.23	1.21	0.253	6.56	0.42	100	Y	1.98	DOR	2	2
4/11/2001	WF	RH	0	25.23	1.21	0.253	6.56	0.42	100	Y	1.98	ELZ	5	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
4/11/2001	WF	RH	0	25.23	1.21	0.253	6.56	0.42	100	Y	1.98	LMB	5	1
4/11/2001	WF	RH	1	25.24	1.12	0.253	6.51	0.42	0	Y	2.02	ETH	5	2
4/11/2001	WF	LH	0	25.00	1.80	0.252	6.57	0.30	0	Y	12.15	ELZ	5	1
4/11/2001	WF	LH	1	24.99	1.73	0.252	6.54	0.30	0	Y	12.13	ELZ	5	1
4/11/2001	WF	LH	1	24.99	1.73	0.252	6.54	0.30	0	Y	12.13	ETH	5	1
4/11/2001	WF	LB	0	25.01	1.79	0.252	6.57	.	0	Y	12.15	0	0	0
4/11/2001	WF	LB	1	25.00	1.68	0.253	6.54	.	0	Y	12.13	ETH	5	1
4/11/2001	WF	LB	1	25.00	1.68	0.253	6.54	.	0	Y	12.15	SWP	5	1
4/11/2001	WF	C	0	25.01	1.77	0.252	6.56	0.40	0	Y	12.08	SWP	5	1
4/11/2001	WF	C	1	25.00	1.63	0.253	6.54	0.40	0	Y	12.03	0	0	0
4/11/2001	WF	RB	0	25.12	1.49	0.253	6.56	.	0	Y	12.13	0	0	0
4/11/2001	WF	RB	1	25.12	1.38	0.253	6.53	.	0	Y	12.08	0	0	0
4/11/2001	WF	RH	0	25.23	1.21	0.253	6.56	0.42	100	Y	12.17	0	0	0
4/11/2001	WF	RH	1	25.24	1.12	0.253	6.51	0.42	0	Y	12.12	0	0	0
4/11/2001	LBL	LH	0	25.03	3.00	0.253	6.67	0.42	100	Y	2.15	0	0	0
4/11/2001	LBL	LH	1	25.02	1.93	0.253	6.60	0.42	0	Y	2.12	DOR	2	1
4/11/2001	LBL	LH	1	25.02	1.93	0.253	6.60	0.42	0	Y	2.12	ETH	3	1
4/11/2001	LBL	LH	1	25.02	1.93	0.253	6.60	0.42	0	Y	2.12	ETH	5	3
4/11/2001	LBL	LB	0	25.04	2.45	0.253	6.64	.	0	Y	2.17	0	0	0
4/11/2001	LBL	LB	1	25.02	1.90	0.253	6.58	.	0	Y	2.15	0	0	0
4/11/2001	LBL	C	0	25.04	1.89	0.253	6.60	0.50	0	Y	2.28	0	0	0
4/11/2001	LBL	C	1	25.02	1.86	0.253	6.56	0.50	0	Y	2.27	0	0	0
4/11/2001	LBL	RB	0	24.96	1.69	0.253	6.58	.	0	Y	2.25	0	0	0
4/11/2001	LBL	RB	1	24.95	1.59	0.253	6.55	.	0	Y	2.20	ELZ	5	1
4/11/2001	LBL	RB	1	24.95	1.59	0.253	6.55	.	0	Y	2.20	ETH	5	1
4/11/2001	LBL	RH	0	24.88	1.48	0.252	6.55	0.40	100	Y	2.22	0	0	0
4/11/2001	LBL	RH	1	24.88	1.32	0.252	6.53	0.40	0	Y	2.18	ETH	5	1
4/11/2001	LBL	LH	0	25.03	3.00	0.253	6.67	0.42	100	Y	12.05	ELZ	5	1
4/11/2001	LBL	LH	1	25.02	1.93	0.253	6.60	0.42	0	Y	12.07	ETH	5	1
4/11/2001	LBL	LB	0	25.04	2.45	0.253	6.64	.	0	Y	12.07	ELZ	5	2
4/11/2001	LBL	LB	1	25.02	1.90	0.253	6.58	.	0	Y	12.07	0	0	0
4/11/2001	LBL	C	0	25.04	1.89	0.253	6.60	0.50	0	Y	12.05	ELZ	5	3
4/11/2001	LBL	C	1	25.02	1.86	0.253	6.56	0.50	0	Y	12.05	0	0	0
4/11/2001	LBL	RB	0	24.96	1.69	0.253	6.58	.	0	Y	12.07	LMB	5	1
4/11/2001	LBL	RB	1	24.95	1.59	0.253	6.55	.	0	Y	12.07	0	0	0
4/11/2001	LBL	RH	0	24.88	1.48	0.252	6.55	0.40	100	Y	12.07	ELZ	5	1
4/11/2001	LBL	RH	1	24.88	1.32	0.252	6.53	0.40	0	Y	12.08	ETH	3	1
4/27/2001	LBL	LH	0	22.67	2.47	0.258	6.61	0.57	0	Y	13.12	MEN	5	1
4/27/2001	LBL	LH	1	22.64	2.28	0.259	6.61	0.57	0	Y	13.17	0	0	0
4/27/2001	LBL	LB	0	22.72	2.43	0.259	6.63	.	0	N	13.17	0	0	0
4/27/2001	LBL	LB	1	22.63	2.24	0.259	6.61	.	0	Y	13.18	0	0	0
4/27/2001	LBL	C	0	22.77	2.38	0.259	6.64	0.60	0	Y	13.20	0	0	0
4/27/2001	LBL	C	1	22.62	2.20	0.258	6.61	0.60	0	Y	13.20	SWP	5	1
4/27/2001	LBL	RB	0	22.67	2.34	0.258	6.64	.	0	Y	13.18	0	0	0
4/27/2001	LBL	RB	1	22.58	2.23	0.257	6.62	.	0	Y	13.18	0	0	0
4/27/2001	LBL	RH	0	22.57	2.30	0.256	6.64	0.67	0	Y	13.17	ELZ	5	2
4/27/2001	LBL	RH	1	22.54	2.25	0.255	6.62	0.67	35	Y	13.20	0	0	0
4/27/2001	WF	LH	0	22.35	2.55	0.259	6.69	0.45	0	Y	13.37	0	0	0
4/27/2001	WF	LH	1	22.37	2.50	0.259	6.67	0.45	0	Y	13.18	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
4/27/2001	WF	LB	0	22.34	2.45	0.259	6.69	.	0	Y	13.20	0	0	0
4/27/2001	WF	LB	1	22.36	2.40	0.260	6.66	.	0	Y	13.18	0	0	0
4/27/2001	WF	C	0	22.32	2.34	0.259	6.68	0.50	0	Y	13.22	0	0	0
4/27/2001	WF	C	1	22.34	2.30	0.260	6.65	0.50	0	Y	13.25	0	0	0
4/27/2001	WF	RB	0	22.46	2.24	0.258	6.69	.	0	Y	13.20	0	0	0
4/27/2001	WF	RB	1	22.39	1.96	0.259	6.64	.	0	Y	13.22	0	0	0
4/27/2001	WF	RH	0	22.59	2.13	0.256	6.70	0.55	0	Y	13.18	ETH	5	1
4/27/2001	WF	RH	1	22.44	1.62	0.257	6.63	0.55	0	Y	13.20	ELZ	5	1
4/27/2001	WF	RH	1	22.44	1.62	0.257	6.63	0.55	0	Y	13.20	ETH	5	1
4/27/2001	WF	RH	1	22.44	1.62	0.257	6.63	0.55	0	Y	13.20	POM	5	1
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	2.15	DOR	3	1
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	2.15	MEN	3	3
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	2.15	UID	4	1
4/27/2001	GL1	LH	1	23.80	7.60	0.305	7.22	0.20	0	Y	2.22	0	0	0
4/27/2001	GL1	LB	0	24.20	9.43	0.306	7.29	.	0	Y	2.18	MEN	3	7
4/27/2001	GL1	LB	1	22.48	6.73	0.304	7.18	.	0	Y	2.22	0	0	0
4/27/2001	GL1	C	0	24.13	10.13	0.305	7.38	0.25	0	Y	2.23	0	0	0
4/27/2001	GL1	C	1	21.16	5.85	0.302	7.13	0.25	0	Y	2.25	0	0	0
4/27/2001	GL1	RB	0	24.02	9.62	0.305	7.30	.	0	Y	2.28	0	0	0
4/27/2001	GL1	RB	1	22.53	7.48	0.304	7.25	.	0	Y	2.30	0	0	0
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	2.25	DOR	2	2
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	2.25	LEP	1	13
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	2.25	MEN	3	2
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	2.25	PIP	5	2
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	2.28	CYP	1	4
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	2.28	CYP	2	6
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	2.28	CYP	3	2
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	2.28	LEP	1	18
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	2.28	POM	1	1
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	2.28	PIP	5	2
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	11.02	LEP	1	2
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	11.02	MEN	2	2
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	11.02	MEN	3	1
4/27/2001	GL1	LH	0	24.26	8.73	0.306	7.20	0.20	0	Y	11.02	MEN	5	1
4/27/2001	GL1	LH	1	23.80	7.60	0.305	7.22	0.20	0	Y	11.02	0	0	0
4/27/2001	GL1	LB	0	24.20	9.43	0.306	7.29	.	0	Y	11.03	MEN	3	4
4/27/2001	GL1	LB	0	24.20	9.43	0.306	7.29	.	0	Y	11.03	LMB	5	1
4/27/2001	GL1	LB	0	24.20	9.43	0.306	7.29	.	0	Y	11.03	MEN	5	11
4/27/2001	GL1	LB	0	24.20	9.43	0.306	7.29	.	0	Y	11.03	PIP	5	1
4/27/2001	GL1	LB	1	22.48	6.73	0.304	7.18	.	0	Y	11.00	0	0	0
4/27/2001	GL1	C	0	24.13	10.13	0.305	7.38	0.25	0	Y	11.00	DOR	5	1
4/27/2001	GL1	C	1	21.16	5.85	0.302	7.13	0.25	0	Y	11.00	0	0	0
4/27/2001	GL1	RB	0	24.02	9.62	0.305	7.30	.	0	Y	11.00	0	0	0
4/27/2001	GL1	RB	1	22.53	7.48	0.304	7.17	.	0	Y	11.03	0	0	0
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	11.03	DOR	1	1
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	11.03	LEP	1	1
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	11.03	MEN	3	2
4/27/2001	GL1	RH	0	23.90	9.11	0.305	7.21	0.25	0	Y	11.03	MEN	5	3
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	11.02	CYP	1	3

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	11.02	CYP	3	1
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	11.02	DOR	2	1
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	11.02	LEP	1	2
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	11.02	MEN	3	3
4/27/2001	GL1	RH	1	23.90	9.11	0.305	7.21	0.25	0	Y	11.02	UID	4	2
4/27/2001	GL2	LH	0	23.83	7.59	0.290	7.18	0.35	0	Y	2.03	CRS	5	1
4/27/2001	GL2	LH	0.75	22.42	3.27	0.281	6.90	0.35	1	Y	2.08	0	0	0
4/27/2001	GL2	LB	0	23.70	7.84	0.285	7.08	.	0	Y	2.07	MEN	5	1
4/27/2001	GL2	LB	1	21.55	4.07	0.292	6.93	.	0	Y	2.10	0	0	0
4/27/2001	GL2	C	0	23.57	8.09	0.279	6.98	0.45	0	Y	2.17	0	0	0
4/27/2001	GL2	C	1	20.67	4.87	0.303	6.95	0.45	0	Y	2.17	0	0	0
4/27/2001	GL2	RB	0	23.65	8.80	0.285	7.08	.	0	N	2.10	0	0	0
4/27/2001	GL2	RB	1	21.32	4.95	0.295	6.96	.	0	Y	2.15	0	0	0
4/27/2001	GL2	RH	0	23.72	9.50	0.290	7.17	0.25	0	N	2.08	0	0	0
4/27/2001	GL2	RH	0.5	21.97	5.02	0.286	6.96	0.25	0	Y	2.13	0	0	0
4/27/2001	GL2	LH	0	23.83	7.59	0.290	7.18	0.35	0	Y	11.15	CRS	3	1
4/27/2001	GL2	LH	0	23.83	7.59	0.290	7.18	0.35	0	Y	11.15	GAR	5	1
4/27/2001	GL2	LH	0.75	22.42	3.27	0.281	6.90	0.35	1	Y	11.13	0	0	0
4/27/2001	GL2	LB	0	23.70	7.84	0.285	7.08	.	0	Y	11.13	0	0	0
4/27/2001	GL2	LB	1	21.55	4.07	0.292	6.93	.	0	Y	11.13	0	0	0
4/27/2001	GL2	C	0	23.57	8.09	0.279	6.98	0.45	0	Y	11.13	0	0	0
4/27/2001	GL2	C	1	20.67	4.87	0.303	6.95	0.45	0	Y	11.08	0	0	0
4/27/2001	GL2	RB	0	23.65	8.80	0.285	7.08	.	0	N	11.12	0	0	0
4/27/2001	GL2	RB	1	21.32	4.95	0.295	6.96	.	0	Y	11.05	0	0	0
4/27/2001	GL2	RH	0	23.72	9.50	0.290	7.17	0.25	0	N	11.13	0	0	0
4/27/2001	GL2	RH	0.5	21.97	5.02	0.286	6.96	0.25	0	Y	11.13	PIP	5	1
5/9/2001	WF	LH	0	25.56	2.72	0.266	6.89	0.61	10	Y	14.30	0	0	0
5/9/2001	WF	LH	0.5	25.56	2.72	0.266	6.89	0.61	0	Y	14.37	POM	5	1
5/9/2001	WF	LB	0	25.70	2.32	0.267	6.90	.	0	Y	14.33	0	0	0
5/9/2001	WF	LB	1	25.43	2.14	0.266	6.90	.	0	Y	14.37	POM	5	1
5/9/2001	WF	C	0	25.84	1.92	0.267	6.90	0.66	0	Y	14.42	ELZ	5	1
5/9/2001	WF	C	1	25.29	1.56	0.266	6.90	0.66	0	Y	14.40	0	0	0
5/9/2001	WF	RB	0	24.40	1.38	0.266	6.90	.	0	Y	14.47	0	0	0
5/9/2001	WF	RB	1	25.39	0.98	0.265	6.86	.	0	Y	14.48	0	0	0
5/9/2001	WF	RH	0	30.24	2.90	0.264	7.25	0.56	10	Y	14.42	SPB	5	1
5/9/2001	WF	RH	1	26.66	2.99	0.263	7.01	0.56	0	Y	14.40	0	0	0
5/9/2001	LBL	LH	0	26.12	2.18	0.269	6.95	0.58	0	Y	14.47	LMB	5	1
5/9/2001	LBL	LH	1	25.82	1.86	0.265	6.93	0.58	50	Y	14.50	POM	5	1
5/9/2001	LBL	LB	0	26.20	2.09	0.269	6.96	.	0	Y	14.48	0	0	0
5/9/2001	LBL	LB	1	25.70	1.72	0.267	6.93	.	0	Y	14.50	0	0	0
5/9/2001	LBL	C	0	26.27	1.99	0.269	6.96	0.76	0	Y	14.50	0	0	0
5/9/2001	LBL	C	1	25.57	1.58	0.268	6.92	0.76	0	Y	14.50	0	0	0
5/9/2001	LBL	RB	0	26.32	1.62	0.267	6.95	.	0	Y	14.55	MEN	5	1
5/9/2001	LBL	RB	1	25.82	1.37	0.267	6.90	.	0	Y	14.53	SPB	5	1
5/9/2001	LBL	RH	0	26.36	1.25	0.265	6.94	0.91	100	Y	14.50	ELZ	5	1
5/9/2001	LBL	RH	1	26.06	1.16	0.265	6.88	0.91	80	Y	14.52	0	0	0
5/9/2001	GL1	LH	0	28.34	13.21	0.289	9.00	0.36	0	Y	14.20	0	0	0
5/9/2001	GL1	LH	1	28.34	13.21	0.289	9.00	0.36	0	Y	14.15	CAP	2	10
5/9/2001	GL1	LH	1	28.34	13.21	0.289	9.00	0.36	0	Y	14.15	CYP	1	55

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
5/9/2001	GL1	LH	1	28.34	13.21	0.289	9.00	0.36	0	Y	14.15	DOR	1	4
5/9/2001	GL1	LH	1	28.34	13.21	0.289	9.00	0.36	0	Y	14.15	DOR	2	5
5/9/2001	GL1	LH	1	28.34	13.21	0.289	9.00	0.36	0	Y	14.15	LEP	1	12
5/9/2001	GL1	LH	1	28.34	13.21	0.289	9.00	0.36	0	Y	14.15	LEP	2	1
5/9/2001	GL1	LB	0	28.15	12.85	0.289	8.99	.	0	Y	14.22	MEN	5	1
5/9/2001	GL1	LB	1	26.42	9.39	0.292	8.84	.	0	Y	14.18	CYP	1	1
5/9/2001	GL1	LB	1	26.42	9.39	0.292	8.84	.	0	Y	14.18	CYP	2	2
5/9/2001	GL1	LB	1	26.42	9.39	0.292	8.84	.	0	Y	14.18	LMB	2	1
5/9/2001	GL1	LB	1	26.42	9.39	0.292	8.84	.	0	Y	14.18	MEN	3	4
5/9/2001	GL1	C	0	27.95	12.48	0.289	8.98	0.36	0	Y	14.22	MEN	5	5
5/9/2001	GL1	C	1	24.50	5.56	0.294	8.68	0.36	0	Y	14.22	LMB	5	1
5/9/2001	GL1	RB	0	28.11	12.25	0.290	8.94	.	0	Y	14.27	MEN	5	2
5/9/2001	GL1	RB	1	25.81	8.62	0.292	8.71	.	0	Y	14.22	CYP	1	1
5/9/2001	GL1	RB	1	25.81	8.62	0.292	8.71	.	0	Y	14.22	LEP	1	1
5/9/2001	GL1	RH	0	28.26	12.01	0.290	8.90	0.25	1	Y	14.32	MEN	3	1
5/9/2001	GL1	RH	1	27.12	11.68	0.290	8.74	0.25	25	Y	14.27	DOR	1	1
5/9/2001	GL1	RH	1	27.12	11.68	0.290	8.74	0.25	25	Y	14.27	DOR	2	2
5/9/2001	GL1	RH	1	27.12	11.68	0.290	8.74	0.25	25	Y	14.27	DOL	5	4
5/9/2001	GL1	RH	1	27.12	11.68	0.290	8.74	0.25	25	Y	14.27	ORS	5	5
5/9/2001	GL1	RH	1	27.12	11.68	0.290	8.74	0.25	25	Y	14.27	DOR	4	1
5/9/2001	GL2	LH	0	28.80	5.54	0.282	7.34	0.58	0	Y	14.07	0	0	0
5/9/2001	GL2	LH	1	26.63	3.14	0.282	7.18	0.58	0	Y	14.02	0	0	0
5/9/2001	GL2	LB	0	28.93	6.67	0.284	7.41	.	0	Y	14.07	LMB	5	1
5/9/2001	GL2	LB	1	25.42	3.34	0.289	7.25	.	0	Y	14.03	LEK	5	1
5/9/2001	GL2	LB	1	25.42	3.34	0.289	7.25	.	0	Y	14.03	LMB	5	1
5/9/2001	GL2	C	0	29.06	7.79	0.286	7.47	0.61	0	Y	14.15	0	0	0
5/9/2001	GL2	C	1	24.21	3.54	0.295	7.32	0.61	0	Y	14.15	0	0	0
5/9/2001	GL2	RB	0	29.05	7.23	0.285	7.44	.	0	Y	14.12	0	0	0
5/9/2001	GL2	RB	1	26.63	5.10	0.290	7.36	.	0	Y	14.08	0	0	0
5/9/2001	GL2	RH	0	29.04	6.66	0.284	7.40	0.61	0	Y	14.15	BLG	5	2
5/9/2001	GL2	RH	0	29.04	6.66	0.284	7.40	0.61	0	Y	14.15	LMB	5	3
5/9/2001	GL2	RH	1	29.04	6.66	0.284	7.40	0.61	0	Y	14.08	0	0	0
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	CYP	1	1
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	LEP	1	1
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	LEP	3	2
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	MEN	1	1
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	LEP	5	1
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	PIP	5	3
5/23/2001	GL1	LH	0	31.14	13.78	0.332	8.78	0.40	1	Y	12.12	LEP	4	2
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	CAP	2	1
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	CYP	1	3
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	LEP	1	2
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	LEP	2	2
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	LEP	3	3
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	POM	1	1
5/23/2001	GL1	LH	0.5	29.06	12.10	0.333	8.60	0.40	0	Y	12.17	DOR	4	1
5/23/2001	GL1	LB	0	30.60	14.89	0.331	8.86	.	0	Y	12.15	LMB	5	1
5/23/2001	GL1	LB	0	30.60	14.89	0.331	8.86	.	0	Y	12.15	MEN	5	3
5/23/2001	GL1	LB	1	27.75	9.22	0.337	8.13	.	0	Y	12.20	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
5/23/2001	GL1	C	0	30.05	16.00	0.330	8.94	0.50	0	Y	12.42	MEN	5	22
5/23/2001	GL1	C	1	26.44	6.34	0.340	7.66	0.50	0	Y	12.32	0	0	0
5/23/2001	GL1	RB	0	30.64	14.72	0.333	8.87	.	0	Y	12.23	0	0	0
5/23/2001	GL1	RB	1	28.06	9.66	0.338	8.18	.	0	Y	12.28	PIP	5	1
5/23/2001	GL1	RB	1	28.06	9.66	0.338	8.18	.	0	Y	12.28	PUG	5	1
5/23/2001	GL1	RB	1	28.06	9.66	0.338	8.18	.	0	Y	12.28	SWP	5	1
5/23/2001	GL1	RH	0	31.22	13.43	0.335	8.80	0.50	1	Y	12.22	LMB	5	1
5/23/2001	GL1	RH	0	31.22	13.43	0.335	8.80	0.50	1	Y	12.22	MEN	5	5
5/23/2001	GL1	RH	0	31.22	13.43	0.335	8.80	0.50	1	Y	12.22	SWP	5	1
5/23/2001	GL1	RH	0.6	29.68	12.97	0.335	8.69	0.50	0	Y	12.25	CYP	1	26
5/23/2001	GL1	RH	0.6	29.68	12.97	0.335	8.69	0.50	0	Y	12.25	CYP	2	3
5/23/2001	GL1	RH	0.6	29.68	12.97	0.335	8.69	0.50	0	Y	12.25	DOR	3	9
5/23/2001	GL1	RH	0.6	29.68	12.97	0.335	8.69	0.50	0	Y	12.25	LEP	1	1
5/23/2001	GL1	RH	0.6	29.68	12.97	0.335	8.69	0.50	0	Y	12.25	ORS	5	1
5/23/2001	GL1	RH	0.6	29.68	12.97	0.335	8.69	0.50	0	Y	12.25	PIP	5	1
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	LEP	1	3
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	LEP	2	7
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	LEP	3	5
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	MEN	3	1
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	GAM	5	1
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	LEK	5	10
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	LEP	5	2
5/23/2001	GL2	LH	0	31.51	10.85	0.332	8.92	0.45	0	Y	11.90	LMB	5	1
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	CYP	1	2
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	DOR	1	1
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	DOR	2	3
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	DOR	3	9
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	LEP	1	17
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	LEP	2	6
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	LEP	3	14
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	POM	5	1
5/23/2001	GL2	LH	1	28.07	11.09	0.333	8.46	0.45	0	Y	11.93	LEP	4	3
5/23/2001	GL2	LB	0	31.01	12.73	0.331	8.89	.	0	Y	11.92	LEP	3	1
5/23/2001	GL2	LB	0	31.01	12.73	0.331	8.89	.	0	Y	11.92	GAM	5	1
5/23/2001	GL2	LB	0	31.01	12.73	0.331	8.89	.	0	Y	11.92	LEP	5	10
5/23/2001	GL2	LB	0	31.01	12.73	0.331	8.89	.	0	Y	11.92	LMB	5	3
5/23/2001	GL2	LB	0	31.01	12.73	0.331	8.89	.	0	Y	11.92	MEN	5	4
5/23/2001	GL2	LB	1	27.27	8.36	0.334	8.08	.	0	Y	11.97	LEP	3	1
5/23/2001	GL2	LB	1	27.27	8.36	0.334	8.08	.	0	Y	11.97	PUG	5	1
5/23/2001	GL2	C	0	30.50	14.61	0.330	8.85	0.45	0	Y	12.05	GAM	5	2
5/23/2001	GL2	C	0	30.50	14.61	0.330	8.85	0.45	0	Y	12.05	LEP	5	4
5/23/2001	GL2	C	0	30.50	14.61	0.330	8.85	0.45	0	Y	12.05	MEN	5	1
5/23/2001	GL2	C	1	26.46	5.62	0.334	7.70	0.45	0	Y	12.03	LEP	3	2
5/23/2001	GL2	C	1	26.46	5.62	0.334	7.70	0.45	0	Y	12.03	LMB	5	1
5/23/2001	GL2	RB	0	30.37	15.31	0.331	8.85	.	0	Y	12.02	DOR	3	1
5/23/2001	GL2	RB	0	30.37	15.31	0.331	8.85	.	0	Y	12.02	LEP	5	1
5/23/2001	GL2	RB	0	30.37	15.31	0.331	8.85	.	0	Y	12.02	LMB	5	3
5/23/2001	GL2	RB	0	30.37	15.31	0.331	8.85	.	0	Y	12.02	MEN	5	1
5/23/2001	GL2	RB	1	28.12	10.39	0.333	8.26	.	0	N	12.03	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
5/23/2001	GL2	RH	0	30.24	16.00	0.331	8.84	0.42	0	Y	11.98	LEP	1	9
5/23/2001	GL2	RH	0	30.24	16.00	0.331	8.84	0.42	0	Y	11.98	LEP	2	1
5/23/2001	GL2	RH	0	30.24	16.00	0.331	8.84	0.42	0	Y	11.98	LEP	3	1
5/23/2001	GL2	RH	0	30.24	16.00	0.331	8.84	0.42	0	Y	11.98	LEP	5	1
5/23/2001	GL2	RH	0.6	29.78	15.15	0.331	8.82	0.42	0	Y	12.02	CYP	1	1
5/23/2001	GL2	RH	0.6	29.78	15.15	0.331	8.82	0.42	0	Y	12.02	LEP	2	2
5/23/2001	GL2	RH	0.6	29.78	15.15	0.331	8.82	0.42	0	Y	12.02	LEP	3	2
5/23/2001	GL2	RH	0.6	29.78	15.15	0.331	8.82	0.42	0	Y	12.02	PUG	5	1
5/23/2001	WF	LH	0	25.85	3.40	0.321	7.20	0.38	10	Y	11.73	LMB	5	1
5/23/2001	WF	LH	1	25.85	3.40	0.321	7.20	0.38	10	N	11.77	0	0	0
5/23/2001	WF	LB	0	25.81	3.35	0.321	7.11	.	0	Y	11.73	BLG	5	1
5/23/2001	WF	LB	0	25.81	3.35	0.321	7.11	.	0	Y	11.73	MEN	5	3
5/23/2001	WF	LB	1	25.67	3.24	0.321	7.12	.	0	Y	11.77	ETH	5	11
5/23/2001	WF	C	0	25.76	3.29	0.321	7.01	0.40	0	N	11.88	0	0	0
5/23/2001	WF	C	1	25.48	3.07	0.321	7.04	0.40	0	Y	11.77	0	0	0
5/23/2001	WF	RB	0	26.00	3.05	0.321	7.02	.	0	Y	11.78	LEP	5	2
5/23/2001	WF	RB	0	26.00	3.05	0.321	7.02	.	0	Y	11.78	MEN	5	2
5/23/2001	WF	RB	1	25.62	3.39	0.321	7.10	.	0	Y	11.80	0	0	0
5/23/2001	WF	RH	0	26.23	2.81	0.321	7.03	0.65	15	Y	11.78	LEP	3	2
5/23/2001	WF	RH	1	25.76	3.70	0.321	7.15	0.65	5	Y	11.78	0	0	0
5/23/2001	LBL	LH	0	26.42	4.11	0.322	7.00	0.50	0	Y	11.58	SWP	5	1
5/23/2001	LBL	LH	1	26.31	3.92	0.321	6.98	0.50	25	Y	11.62	ETH	5	1
5/23/2001	LBL	LB	0	26.27	4.05	0.322	7.00	.	0	Y	11.43	MEN	5	7
5/23/2001	LBL	LB	1	25.94	3.40	0.322	6.98	.	0	Y	11.62	0	0	0
5/23/2001	LBL	C	0	26.12	3.99	0.321	7.00	0.55	0	Y	11.68	0	0	0
5/23/2001	LBL	C	1	25.56	2.88	0.322	6.97	0.55	0	Y	11.70	0	0	0
5/23/2001	LBL	RB	0	26.27	3.85	0.321	6.97	.	5	Y	11.65	CRS	2	1
5/23/2001	LBL	RB	0	26.27	3.85	0.321	6.97	.	5	Y	11.65	LEP	1	1
5/23/2001	LBL	RB	0	26.27	3.85	0.321	6.97	.	5	Y	11.65	LEP	3	3
5/23/2001	LBL	RB	0	26.27	3.85	0.321	6.97	.	5	Y	11.65	ELZ	5	1
5/23/2001	LBL	RB	0	26.27	3.85	0.321	6.97	.	5	Y	11.65	LEP	5	3
5/23/2001	LBL	RB	0.5	25.99	3.30	0.322	6.96	.	5	Y	11.68	POM	5	1
5/23/2001	LBL	RH	0	26.42	3.71	0.321	6.94	.	40	Y	11.65	MEN	5	1
5/23/2001	LBL	RH	0.4	26.42	3.71	0.321	6.94	.	30	Y	11.65	SWP	5	1
6/14/2001	WF	LH	0	27.35	3.17	0.249	6.81	0.90	100	Y	12.98	CRS	5	2
6/14/2001	WF	LH	0	27.35	3.17	0.249	6.81	0.90	100	Y	12.98	ELZ	5	3
6/14/2001	WF	LH	0	27.35	3.17	0.249	6.81	0.90	100	Y	12.98	GAM	5	12
6/14/2001	WF	LH	0	27.35	3.17	0.249	6.81	0.90	100	Y	12.98	LEK	5	51
6/14/2001	WF	LH	0	27.35	3.17	0.249	6.81	0.90	100	Y	12.98	WAM	5	2
6/14/2001	WF	LH	1	27.29	3.10	0.250	6.82	0.90	100	Y	13.15	ELZ	5	2
6/14/2001	WF	LH	1	27.29	3.10	0.250	6.82	0.90	100	Y	13.15	SWP	5	1
6/14/2001	WF	LB	0	27.53	3.29	0.250	6.86	.	90	Y	13.05	ELZ	5	10
6/14/2001	WF	LB	0	27.53	3.29	0.250	6.86	.	90	Y	13.05	GAM	5	14
6/14/2001	WF	LB	0	27.53	3.29	0.250	6.86	.	90	Y	13.05	LEK	5	9
6/14/2001	WF	LB	0	27.53	3.29	0.250	6.86	.	90	Y	13.05	SAM	5	1
6/14/2001	WF	LB	1	27.19	2.97	0.250	6.84	.	0	Y	13.15	ELZ	5	1
6/14/2001	WF	C	0	27.70	3.41	0.250	6.90	1.00	90	Y	13.15	ELZ	5	6
6/14/2001	WF	C	0	27.70	3.41	0.250	6.90	1.00	90	Y	13.15	GAM	5	16
6/14/2001	WF	C	0	27.70	3.41	0.250	6.90	1.00	90	Y	13.15	LEK	5	10

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
6/14/2001	WF	C	1	27.08	2.83	0.250	6.85	1.00	0	Y	13.22	0	0	0
6/14/2001	WF	RB	0	27.66	3.07	0.250	6.88	.	0	Y	13.25	0	0	0
6/14/2001	WF	RB	1	27.25	2.67	0.250	6.85	.	0	N	13.23	0	0	0
6/14/2001	WF	RH	0	27.62	2.73	0.250	6.86	0.80	0	Y	13.28	0	0	0
6/14/2001	WF	RH	1	27.41	2.51	0.249	6.84	0.80	50	Y	13.25	ELZ	5	1
6/14/2001	WF	RH	1	27.41	2.51	0.249	6.84	0.80	50	Y	13.25	POM	5	1
6/14/2001	LBL	LH	0	27.76	3.81	0.249	6.88	0.50	100	Y	13.17	ELZ	5	7
6/14/2001	LBL	LH	0	27.76	3.81	0.249	6.88	0.50	100	Y	13.17	GAM	5	2
6/14/2001	LBL	LH	0	27.76	3.81	0.249	6.88	0.50	100	Y	13.17	LEK	5	2
6/14/2001	LBL	LH	1	27.64	3.62	0.250	6.87	0.50	100	Y	13.22	0	0	0
6/14/2001	LBL	LB	0	27.71	3.70	0.249	6.89	.	60	Y	13.25	0	0	0
6/14/2001	LBL	LB	1	27.46	3.26	0.248	6.87	.	0	Y	13.25	0	0	0
6/14/2001	LBL	C	0	27.66	3.58	0.248	6.89	0.60	0	Y	13.35	CRS	5	1
6/14/2001	LBL	C	0	27.66	3.58	0.248	6.89	0.60	0	Y	13.35	ELZ	5	1
6/14/2001	LBL	C	0	27.66	3.58	0.248	6.89	0.60	0	Y	13.35	GAM	5	15
6/14/2001	LBL	C	0	27.66	3.58	0.248	6.89	0.60	0	Y	13.35	LEK	5	6
6/14/2001	LBL	C	1	27.27	2.90	0.245	6.86	0.60	0	Y	13.35	0	0	0
6/14/2001	LBL	RB	0	27.57	3.15	0.247	6.89	.	100	Y	13.33	ELZ	5	2
6/14/2001	LBL	RB	0	27.57	3.15	0.247	6.89	.	100	Y	13.33	GAM	5	2
6/14/2001	LBL	RB	1	27.31	2.73	0.245	6.86	.	0	Y	13.32	0	0	0
6/14/2001	LBL	RH	0	27.47	2.72	0.245	6.89	0.80	100	Y	13.25	0	0	0
6/14/2001	LBL	RH	1	27.35	2.55	0.245	6.85	0.80	100	Y	13.30	LEP	3	1
6/14/2001	LBL	RH	1	27.35	2.55	0.245	6.85	0.80	100	Y	13.30	ELZ	5	7
6/14/2001	GL1	LH	0	30.16	11.72	0.311	8.09	0.40	0	Y	12.83	MEN	3	3
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	CYP	1	20
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	DOR	3	1
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	LEP	1	1
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	LEP	2	1
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	LEP	3	3
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	LEP	5	1
6/14/2001	GL1	LH	0.75	26.44	4.51	0.336	7.41	0.40	0	Y	12.83	PIP	5	6
6/14/2001	GL1	LB	0	29.65	10.59	0.307	7.81	.	0	Y	12.82	MEN	5	2
6/14/2001	GL1	LB	1	26.43	4.57	0.336	7.32	.	0	Y	12.85	CYP	1	1
6/14/2001	GL1	LB	1	26.43	4.57	0.336	7.32	.	0	Y	12.85	BLG	5	1
6/14/2001	GL1	C	0	29.14	9.45	0.303	7.53	0.40	0	Y	12.85	0	0	0
6/14/2001	GL1	C	1	26.42	4.63	0.335	7.22	0.40	0	Y	12.87	0	0	0
6/14/2001	GL1	RB	0	29.01	8.49	0.293	7.42	.	0	Y	12.85	0	0	0
6/14/2001	GL1	RB	1	27.64	6.03	0.311	7.22	.	0	Y	12.88	MEN	5	1
6/14/2001	GL1	RH	0	28.87	7.52	0.283	7.30	0.40	10	Y	12.88	CRS	2	2
6/14/2001	GL1	RH	0	28.87	7.52	0.283	7.30	0.40	10	Y	12.88	MEN	3	2
6/14/2001	GL1	RH	1	28.85	7.42	0.286	7.22	0.40	10	Y	12.88	LEP	3	1
6/14/2001	GL1	RH	1	28.85	7.42	0.286	7.22	0.40	10	Y	12.88	LEP	5	1
6/14/2001	GL1	RH	1	28.85	7.42	0.286	7.22	0.40	10	Y	12.88	PIP	5	1
6/14/2001	GL2	LH	0	28.77	2.55	0.218	6.93	0.60	0	Y	12.85	0	0	0
6/14/2001	GL2	LH	1	27.76	2.29	0.241	6.85	0.60	0	Y	12.93	0	0	0
6/14/2001	GL2	LB	0	28.71	2.62	0.217	6.88	.	0	Y	12.93	0	0	0
6/14/2001	GL2	LB	1	27.37	3.36	0.274	6.94	.	0	Y	13.02	0	0	0
6/14/2001	GL2	C	0	28.65	2.69	0.216	6.83	0.60	0	Y	12.87	DOR	3	1
6/14/2001	GL2	C	1	26.97	4.42	0.306	7.03	0.60	0	N	12.98	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
6/14/2001	GL2	RB	0	29.05	2.49	0.212	6.84	.	0	Y	13.00	0	0	0
6/14/2001	GL2	RB	1	27.54	3.20	0.267	6.93	.	0	Y	13.07	0	0	0
6/14/2001	GL2	RH	0	29.44	2.29	0.207	6.84	0.60	5	Y	13.00	0	0	0
6/14/2001	GL2	RH	0.75	28.10	1.97	0.228	6.82	0.60	0	Y	13.00	0	0	0
7/3/2001	LBL	LH	0	28.36	3.62	0.355	6.93	0.47	0	Y	13.75	0	0	0
7/3/2001	LBL	LH	1.5	28.36	3.62	0.355	6.93	0.47	80	Y	13.92	0	0	0
7/3/2001	LBL	LB	0	28.45	3.68	0.355	6.95	.	0	Y	13.75	0	0	0
7/3/2001	LBL	LB	1	28.10	3.27	0.354	6.92	.	0	Y	13.77	PRP	5	1
7/3/2001	LBL	LB	1	28.10	3.27	0.354	6.92	.	0	Y	13.77	WAM	5	2
7/3/2001	LBL	C	0	28.53	3.74	0.354	6.96	0.71	0	Y	13.82	GAM	5	1
7/3/2001	LBL	C	1	27.83	2.91	0.353	6.91	0.71	0	N	1.00	0	0	0
7/3/2001	LBL	RB	0	28.73	3.90	0.354	7.01	.	0	Y	13.78	0	0	0
7/3/2001	LBL	RB	1	28.38	3.42	0.353	6.95	.	0	Y	13.82	WAM	5	2
7/3/2001	LBL	RH	0	28.93	4.06	0.353	7.05	0.67	0	Y	13.77	0	0	0
7/3/2001	LBL	RH	1	28.93	3.92	0.353	6.98	0.67	0	Y	13.80	BLG	5	3
7/3/2001	LBL	RH	1	28.93	3.92	0.353	6.98	0.67	0	Y	13.80	WAM	5	5
7/3/2001	WF	LH	0	28.18	1.58	0.355	6.80	0.88	100	Y	13.82	0	0	0
7/3/2001	WF	LH	0.5	28.18	1.58	0.355	6.80	0.88	0	Y	13.82	GAM	5	1
7/3/2001	WF	LB	0	27.99	1.66	0.355	6.84	.	100	Y	13.82	0	0	0
7/3/2001	WF	LB	1	27.99	1.66	0.355	6.84	.	0	Y	13.82	ELZ	5	1
7/3/2001	WF	LB	1	27.99	1.66	0.355	6.84	.	0	Y	13.82	GAM	5	12
7/3/2001	WF	C	0	28.77	1.15	0.354	6.90	0.80	0	Y	13.73	0	0	0
7/3/2001	WF	C	1	27.79	1.73	0.354	6.87	0.80	0	N	13.88	0	0	0
7/3/2001	WF	RB	0	28.86	2.50	0.355	6.94	.	0	Y	13.85	0	0	0
7/3/2001	WF	RB	1	28.16	2.67	0.354	6.90	.	50	Y	13.88	0	0	0
7/3/2001	WF	RH	0	28.95	3.85	0.355	6.97	0.28	75	Y	13.87	0	0	0
7/3/2001	WF	RH	1	28.53	3.60	0.354	6.93	0.28	75	Y	13.77	WAM	5	3
7/3/2001	GL1	LH	0	31.88	16.00	0.357	8.96	0.67	0	Y	13.68	DOR	3	7
7/3/2001	GL1	LH	0	31.88	16.00	0.357	8.96	0.67	0	Y	13.68	LEP	1	1
7/3/2001	GL1	LH	0	31.88	16.00	0.357	8.96	0.67	0	Y	13.68	LEP	5	1
7/3/2001	GL1	LH	0	31.88	16.00	0.357	8.96	0.67	0	Y	13.68	PIP	5	1
7/3/2001	GL1	LH	1	27.64	1.78	0.374	7.10	0.67	50	Y	13.72	LEP	1	5
7/3/2001	GL1	LB	0	32.14	16.00	0.356	8.06	.	20	Y	13.70	MEN	5	3
7/3/2001	GL1	LB	1	27.52	1.63	0.374	7.06	.	0	Y	13.73	LEP	1	1
7/3/2001	GL1	LB	1	27.52	1.63	0.374	7.06	.	0	Y	13.73	LEP	5	1
7/3/2001	GL1	LB	1	27.52	1.63	0.374	7.06	.	0	Y	13.73	PIP	5	1
7/3/2001	GL1	C	0	32.39	16.00	0.355	7.16	0.58	0	Y	13.72	MEN	5	16
7/3/2001	GL1	C	1	27.39	1.48	0.373	7.01	0.58	0	Y	13.85	0	0	0
7/3/2001	GL1	RB	0	31.47	16.00	0.354	8.01	.	0	Y	13.90	MEN	5	14
7/3/2001	GL1	RB	1	27.99	6.01	0.367	7.49	.	0	Y	13.82	0	0	0
7/3/2001	GL1	RH	0	30.55	16.00	0.353	8.86	0.55	50	Y	13.75	BLG	5	3
7/3/2001	GL1	RH	0	30.55	16.00	0.353	8.86	0.55	50	Y	13.75	WAM	5	2
7/3/2001	GL1	RH	1	28.59	10.54	0.361	7.97	0.55	15	Y	13.82	LEP	5	1
7/3/2001	GL1	RH	1	28.59	10.54	0.361	7.97	0.55	15	Y	13.82	PUG	5	1
7/3/2001	GL2	LH	0	32.94	16.00	0.334	8.49	0.65	0	Y	13.52	0	0	0
7/3/2001	GL2	LH	1	30.14	5.83	0.313	7.05	0.65	20	Y	13.63	WAM	5	2
7/3/2001	GL2	LB	0	32.94	16.00	0.333	8.65	.	0	Y	13.53	GAM	5	7
7/3/2001	GL2	LB	1	28.71	3.35	0.307	4.41	.	0	Y	13.57	0	0	0
7/3/2001	GL2	C	0	32.94	16.00	0.332	8.80	0.63	0	Y	13.70	GAM	5	5

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/3/2001	GL2	C	0	32.94	16.00	0.332	8.80	0.63	0	Y	13.70	MEN	5	7
7/3/2001	GL2	C	1	27.27	0.87	0.301	1.77	0.63	0	Y	13.67	0	0	0
7/3/2001	GL2	RB	0	32.73	16.00	0.332	8.67	.	0	Y	13.62	GAM	5	2
7/3/2001	GL2	RB	0	32.73	16.00	0.332	8.67	.	0	Y	13.62	MEN	5	1
7/3/2001	GL2	RB	1	29.33	3.44	0.316	4.73	.	0	Y	13.65	0	0	0
7/3/2001	GL2	RH	0	32.51	16.00	0.332	8.54	0.57	0	Y	13.62	GAM	5	5
7/3/2001	GL2	RH	0	32.51	16.00	0.332	8.54	0.57	0	Y	13.62	PIP	5	1
7/3/2001	GL2	RH	1	31.38	6.01	0.331	7.69	0.57	10	N	1.00	0	0	0
7/17/2001	WF	LH	0	30.38	5.19	0.332	7.29	0.31	20	N	1.00	0	0	0
7/17/2001	WF	LH	0.25	30.30	4.67	0.332	7.19	0.31	60	Y	12.83	WAM	5	6
7/17/2001	WF	LB	0	30.32	5.15	0.333	7.30	.	0	Y	12.85	MEN	5	1
7/17/2001	WF	LB	1	30.15	4.52	0.332	7.18	.	0	Y	12.87	0	0	0
7/17/2001	WF	C	0	30.26	5.11	0.333	7.30	0.31	0	Y	13.13	0	0	0
7/17/2001	WF	C	1	30.00	4.36	0.332	7.16	0.31	0	Y	13.15	0	0	0
7/17/2001	WF	RB	0	30.35	4.93	0.333	7.30	.	30	Y	13.12	LEP	2	1
7/17/2001	WF	RB	1	30.22	4.71	0.332	7.16	.	0	Y	13.03	LEP	1	3
7/17/2001	WF	RH	0	30.44	4.75	0.332	7.29	0.25	100	Y	13.18	ORS	5	1
7/17/2001	WF	RH	0.5	30.44	5.06	0.332	7.16	0.25	90	Y	13.07	LEP	1	2
7/17/2001	LBL	LH	0	32.86	7.67	0.330	7.44	0.15	100	Y	12.22	LEP	3	1
7/17/2001	LBL	LH	0	32.86	7.67	0.330	7.44	0.15	100	Y	12.22	BLG	5	1
7/17/2001	LBL	LH	1	31.51	7.14	0.330	7.33	0.15	30	Y	12.25	LEP	1	28
7/17/2001	LBL	LH	1	31.51	7.14	0.330	7.33	0.15	30	Y	12.25	POM	5	1
7/17/2001	LBL	LH	1	31.51	7.14	0.330	7.33	0.15	30	Y	12.25	SWP	5	1
7/17/2001	LBL	LH	1	31.51	7.14	0.330	7.33	0.15	30	Y	12.25	WAM	5	2
7/17/2001	LBL	LH	1	31.51	7.14	0.330	7.33	0.15	30	Y	12.25	UID	4	3
7/17/2001	LBL	LB	0	32.14	7.64	0.330	7.42	.	0	Y	12.22	0	0	0
7/17/2001	LBL	LB	1	30.76	5.55	0.331	7.21	.	0	Y	12.25	0	0	0
7/17/2001	LBL	C	0	31.41	7.60	0.330	7.39	0.23	0	Y	12.47	0	0	0
7/17/2001	LBL	C	1	30.00	3.95	0.331	7.09	0.23	0	Y	12.43	0	0	0
7/17/2001	LBL	RB	0	31.70	7.38	0.328	7.40	.	50	Y	12.30	CRS	2	1
7/17/2001	LBL	RB	0	31.70	7.38	0.328	7.40	.	50	Y	12.30	CRS	3	1
7/17/2001	LBL	RB	1	30.78	5.04	0.329	7.18	.	50	Y	12.12	LEP	1	1
7/17/2001	LBL	RH	0	31.99	7.16	0.325	7.41	0.31	100	Y	12.35	BLG	5	2
7/17/2001	LBL	RH	0.5	31.55	6.13	0.326	7.26	0.31	100	Y	12.25	LEP	1	2
7/17/2001	LBL	RH	0.5	31.55	6.13	0.326	7.26	0.31	100	Y	12.25	BLG	5	2
7/17/2001	LBL	RH	0.5	31.55	6.13	0.326	7.26	0.31	100	Y	12.25	WAM	5	3
7/17/2001	GL1	LH	0	33.58	11.44	0.347	8.27	0.51	20	Y	13.03	CYP	1	2
7/17/2001	GL1	LH	0	33.58	11.44	0.347	8.27	0.51	20	Y	13.03	LEP	1	2
7/17/2001	GL1	LH	0	33.58	11.44	0.347	8.27	0.51	20	Y	13.03	MEN	5	3
7/17/2001	GL1	LH	0	33.58	11.44	0.347	8.27	0.51	20	Y	13.03	PIP	5	1
7/17/2001	GL1	LH	1	32.20	8.40	0.352	7.95	0.51	10	Y	13.07	LEP	1	1
7/17/2001	GL1	LH	1	32.20	8.40	0.352	7.95	0.51	10	Y	13.07	LEP	2	1
7/17/2001	GL1	LH	1	32.20	8.40	0.352	7.95	0.51	10	Y	13.07	BLG	5	24
7/17/2001	GL1	LH	1	32.20	8.40	0.352	7.95	0.51	10	Y	13.07	POM	5	1
7/17/2001	GL1	LH	1	32.20	8.40	0.352	7.95	0.51	10	Y	13.07	WAM	5	4
7/17/2001	GL1	LB	0	33.31	11.61	0.347	8.33	.	0	Y	13.02	MEN	5	40
7/17/2001	GL1	LB	1	31.22	6.80	0.353	7.64	.	0	N	13.08	0	0	0
7/17/2001	GL1	C	0	33.04	11.77	0.347	8.38	0.46	0	N	1.00	0	0	0
7/17/2001	GL1	C	1	30.24	5.19	0.353	7.33	0.46	0	Y	13.13	BLG	5	3

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/17/2001	GL1	C	1	30.24	5.19	0.353	7.33	0.46	0	Y	13.13	MEN	5	1
7/17/2001	GL1	RB	0	33.04	11.18	0.348	8.31	.	0	Y	13.18	MEN	5	52
7/17/2001	GL1	RB	1	30.61	6.44	0.353	7.41	.	0	Y	13.22	MOR	3	1
7/17/2001	GL1	RB	1	30.61	6.44	0.353	7.41	.	0	Y	13.22	PUG	5	1
7/17/2001	GL1	RH	0	33.04	10.58	0.349	8.24	0.38	0	Y	13.17	LEP	1	15
7/17/2001	GL1	RH	0	33.04	10.58	0.349	8.24	0.38	0	Y	13.17	LEP	2	3
7/17/2001	GL1	RH	0	33.04	10.58	0.349	8.24	0.38	0	Y	13.17	MEN	3	1
7/17/2001	GL1	RH	0	33.04	10.58	0.349	8.24	0.38	0	Y	13.17	BLG	5	8
7/17/2001	GL1	RH	0	33.04	10.58	0.349	8.24	0.38	0	Y	13.17	ORS	5	1
7/17/2001	GL1	RH	0	33.04	10.58	0.349	8.24	0.38	0	Y	13.17	UID	4	7
7/17/2001	GL1	RH	1	30.97	7.68	0.353	7.48	0.38	0	Y	13.22	LEP	3	1
7/17/2001	GL1	RH	1	30.97	7.68	0.353	7.48	0.38	0	Y	13.22	MEN	5	1
7/17/2001	GL1	RH	1	30.97	7.68	0.353	7.48	0.38	0	Y	13.22	PIP	5	1
7/17/2001	GL2	LH	0	34.16	11.76	0.348	8.29	0.41	0	Y	12.82	BLG	5	1
7/17/2001	GL2	LH	0	34.16	11.76	0.348	8.29	0.41	0	Y	12.82	GAM	5	2
7/17/2001	GL2	LH	0.5	32.21	11.69	0.346	8.13	0.41	0	Y	12.82	LEP	1	5
7/17/2001	GL2	LH	0.5	32.21	11.69	0.346	8.13	0.41	0	Y	12.82	LEP	2	1
7/17/2001	GL2	LH	0.5	32.21	11.69	0.346	8.13	0.41	0	Y	12.82	LEP	3	1
7/17/2001	GL2	LH	0.5	32.21	11.69	0.346	8.13	0.41	0	Y	12.82	BLG	5	1
7/17/2001	GL2	LH	0.5	32.21	11.69	0.346	8.13	0.41	0	Y	12.82	ORS	5	1
7/17/2001	GL2	LB	0	34.37	12.33	0.347	8.36	.	0	Y	12.82	0	0	0
7/17/2001	GL2	LB	1	31.01	8.33	0.326	7.60	.	0	Y	12.82	LEP	3	10
7/17/2001	GL2	C	0	34.57	12.90	0.345	8.42	0.41	0	Y	12.98	MEN	5	55
7/17/2001	GL2	C	1	29.81	4.97	0.305	7.07	0.41	0	Y	12.92	MEN	5	2
7/17/2001	GL2	C	1	29.81	4.97	0.305	7.07	0.41	0	Y	12.92	ORS	5	2
7/17/2001	GL2	RB	0	34.27	12.94	0.345	8.39	.	0	Y	12.85	GAM	5	15
7/17/2001	GL2	RB	0	34.27	12.94	0.345	8.39	.	0	Y	12.85	MEN	5	16
7/17/2001	GL2	RB	1	31.89	8.98	0.325	7.72	.	0	Y	12.98	LEP	1	2
7/17/2001	GL2	RH	0	33.97	12.98	0.345	8.36	0.41	0	Y	12.83	LMB	5	1
7/17/2001	GL2	RH	0	33.97	12.98	0.345	8.36	0.41	0	Y	12.83	MEN	5	1
7/17/2001	GL2	RH	0.3	33.97	12.98	0.345	8.36	0.41	0	Y	12.93	LEP	1	3
7/17/2001	GL2	RH	0.3	33.97	12.98	0.345	8.36	0.41	0	Y	12.93	LEP	2	1
7/17/2001	GL2	RH	0.3	33.97	12.98	0.345	8.36	0.41	0	Y	12.93	LEP	3	1
7/17/2001	GL2	RH	0.3	33.97	12.98	0.345	8.36	0.41	0	Y	12.93	BLG	5	1
7/17/2001	GL2	RH	0.3	33.97	12.98	0.345	8.36	0.41	0	Y	12.93	ORS	5	1
7/17/2001	GL2	RH	0.3	33.97	12.98	0.345	8.36	0.41	0	Y	12.93	LEP	4	2
7/30/2001	GL1	LH	0	35.72	13.41	0.331	8.77	0.30	50	Y	12.98	BLG	5	9
7/30/2001	GL1	LH	0.5	34.14	6.20	0.358	8.24	0.30	0	Y	13.02	0	0	0
7/30/2001	GL1	LB	0	35.15	14.71	0.341	8.79	.	0	Y	13.02	LEP	3	1
7/30/2001	GL1	LB	0	35.15	14.71	0.341	8.79	.	0	Y	13.02	MEN	3	1
7/30/2001	GL1	LB	0	35.15	14.71	0.341	8.79	.	0	Y	13.02	MEN	5	4
7/30/2001	GL1	LB	1	32.69	5.40	0.355	8.01	.	0	Y	13.05	LEP	1	3
7/30/2001	GL1	LB	1	32.69	5.40	0.355	8.01	.	0	Y	13.05	LEP	2	1
7/30/2001	GL1	LB	1	32.69	5.40	0.355	8.01	.	0	Y	13.05	LEP	3	72
7/30/2001	GL1	LB	1	32.69	5.40	0.355	8.01	.	0	Y	13.05	MOR	3	1
7/30/2001	GL1	LB	1	32.69	5.40	0.355	8.01	.	0	Y	13.05	LEP	5	1
7/30/2001	GL1	C	0	34.58	16.00	0.351	8.81	0.30	0	Y	13.07	CRS	3	1
7/30/2001	GL1	C	0	34.58	16.00	0.351	8.81	0.30	0	Y	13.07	MEN	5	22
7/30/2001	GL1	C	1	31.24	4.59	0.352	7.78	0.30	0	Y	13.17	LEP	3	8

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/30/2001	GL1	RB	0	34.27	13.04	0.354	8.62	.	0	Y	13.12	MEN	3	2
7/30/2001	GL1	RB	0	34.27	13.04	0.354	8.62	.	0	Y	13.12	MEN	5	4
7/30/2001	GL1	RB	1	31.65	5.68	0.357	7.83	.	0	N	13.15	0	0	0
7/30/2001	GL1	RH	0	33.95	10.07	0.356	8.42	0.24	0	Y	13.10	LEP	3	4
7/30/2001	GL1	RH	0	33.95	10.07	0.356	8.42	0.24	0	Y	13.10	MEN	2	1
7/30/2001	GL1	RH	0	33.95	10.07	0.356	8.42	0.24	0	Y	13.10	MEN	3	3
7/30/2001	GL1	RH	0	33.95	10.07	0.356	8.42	0.24	0	Y	13.10	GAM	5	2
7/30/2001	GL1	RH	0	33.95	10.07	0.356	8.42	0.24	0	Y	13.10	LEP	5	1
7/30/2001	GL1	RH	1	32.05	6.77	0.361	7.88	0.24	0	Y	13.25	LEP	1	1
7/30/2001	GL1	RH	1	32.05	6.77	0.361	7.88	0.24	0	Y	13.25	LEP	3	3
7/30/2001	GL1	RH	1	32.05	6.77	0.361	7.88	0.24	0	Y	13.25	BLU	5	3
7/30/2001	GL1	RH	1	32.05	6.77	0.361	7.88	0.24	0	Y	13.25	LEP	5	1
7/30/2001	GL2	LH	0	34.96	12.25	0.351	8.57	0.35	0	Y	13.20	LEP	1	1
7/30/2001	GL2	LH	0	34.96	12.25	0.351	8.57	0.35	0	Y	13.20	LMB	5	1
7/30/2001	GL2	LH	1	32.75	8.14	0.354	8.12	0.35	0	N	13.22	0	0	0
7/30/2001	GL2	LB	0	34.76	13.00	0.351	8.61	.	0	Y	13.20	LEP	3	14
7/30/2001	GL2	LB	0	34.76	13.00	0.351	8.61	.	0	Y	13.20	BLG	5	1
7/30/2001	GL2	LB	0	34.76	13.00	0.351	8.61	.	0	Y	13.20	MEN	5	1
7/30/2001	GL2	LB	1	31.72	5.69	0.349	7.73	.	0	Y	13.22	DOR	2	1
7/30/2001	GL2	LB	1	31.72	5.69	0.349	7.73	.	0	Y	13.22	LEP	1	6
7/30/2001	GL2	LB	1	31.72	5.69	0.349	7.73	.	0	Y	13.22	LEP	2	2
7/30/2001	GL2	LB	1	31.72	5.69	0.349	7.73	.	0	Y	13.22	LEP	3	8
7/30/2001	GL2	LB	1	31.72	5.69	0.349	7.73	.	0	Y	13.22	POM	5	1
7/30/2001	GL2	C	0	34.56	13.75	0.350	8.65	0.35	0	Y	13.23	LEP	2	1
7/30/2001	GL2	C	0	34.56	13.75	0.350	8.65	0.35	0	Y	13.23	BLG	5	1
7/30/2001	GL2	C	1	30.69	3.24	0.344	7.34	0.35	0	Y	13.30	DOR	2	1
7/30/2001	GL2	C	1	30.69	3.24	0.344	7.34	0.35	0	Y	13.30	DOR	3	2
7/30/2001	GL2	C	1	30.69	3.24	0.344	7.34	0.35	0	Y	13.30	LEP	1	2
7/30/2001	GL2	C	1	30.69	3.24	0.344	7.34	0.35	0	Y	13.30	LEP	3	2
7/30/2001	GL2	RB	0	34.96	13.53	0.350	8.67	.	0	Y	13.27	LEP	3	9
7/30/2001	GL2	RB	0	34.96	13.53	0.350	8.67	.	0	Y	13.27	LEP	5	2
7/30/2001	GL2	RB	1	31.14	4.76	0.352	7.60	.	0	Y	13.28	LEP	3	3
7/30/2001	GL2	RH	0	35.36	13.30	0.349	8.69	0.32	0	Y	13.22	LEP	1	1
7/30/2001	GL2	RH	0	35.36	13.30	0.349	8.69	0.32	0	Y	13.22	MEN	5	2
7/30/2001	GL2	RH	0.6	31.59	6.27	0.359	7.85	0.32	0	Y	13.28	0	0	0
7/30/2001	WF	LH	0	32.60	8.24	0.314	7.97	0.45	10	Y	12.90	LEP	3	2
7/30/2001	WF	LH	0	32.60	8.24	0.314	7.97	0.45	10	Y	12.90	MEN	5	1
7/30/2001	WF	LH	1	32.60	8.24	0.314	7.97	0.45	30	Y	12.93	LEP	3	12
7/30/2001	WF	LB	0	32.46	8.30	0.325	7.98	.	0	Y	12.92	MEN	5	6
7/30/2001	WF	LB	1	32.33	7.62	0.325	7.88	.	0	N	12.95	0	0	0
7/30/2001	WF	C	0	32.32	8.36	0.335	7.98	0.30	0	N	1.00	0	0	0
7/30/2001	WF	C	1	32.05	7.00	0.335	7.79	0.30	0	Y	12.97	CCF	5	1
7/30/2001	WF	RB	0	32.37	8.22	0.335	7.95	.	50	Y	13.00	LEP	3	1
7/30/2001	WF	RB	0	32.37	8.22	0.335	7.95	.	50	Y	13.00	BLG	5	1
7/30/2001	WF	RB	1	32.23	7.39	0.335	7.81	.	50	Y	13.03	BLG	5	1
7/30/2001	WF	RB	1	32.23	7.39	0.335	7.81	.	50	Y	13.03	POM	5	1
7/30/2001	WF	RH	0	32.41	8.07	0.335	7.92	0.28	100	Y	12.98	POM	5	2
7/30/2001	WF	RH	0	32.41	8.07	0.335	7.92	0.28	100	Y	12.98	WAM	5	1
7/30/2001	WF	RH	0.25	32.41	7.78	0.335	7.82	0.28	100	N	13.03	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/30/2001	LBL	LH	0	33.64	11.49	0.329	8.36	0.30	75	Y	13.03	LEP	3	2
7/30/2001	LBL	LH	1	32.96	8.30	0.333	7.95	0.30	25	N	13.08	0	0	0
7/30/2001	LBL	LB	0	33.42	11.27	0.330	8.32	.	0	Y	13.05	MEN	5	2
7/30/2001	LBL	LB	1	31.67	7.85	0.337	7.64	.	0	Y	13.05	LEP	3	2
7/30/2001	LBL	C	0	33.19	11.04	0.331	8.28	0.30	0	Y	13.07	MEN	5	1
7/30/2001	LBL	C	1	30.38	7.40	0.340	7.33	0.30	0	Y	13.17	BLG	5	1
7/30/2001	LBL	RB	0	33.11	10.82	0.330	8.29	.	40	Y	13.13	WAM	5	1
7/30/2001	LBL	RB	1	31.70	9.00	0.335	7.81	.	50	N	13.17	0	0	0
7/30/2001	LBL	RH	0	33.02	10.59	0.329	8.29	0.25	100	Y	13.10	BLG	5	2
7/30/2001	LBL	RH	0	33.02	10.59	0.329	8.29	0.25	100	Y	13.10	LMB	5	1
7/30/2001	LBL	RH	0	33.02	10.59	0.329	8.29	0.25	100	Y	13.10	POM	5	1
7/30/2001	LBL	RH	0	33.02	10.59	0.329	8.29	0.25	100	Y	13.10	WAM	5	1
7/30/2001	LBL	RH	0.4	33.02	10.59	0.329	8.29	0.25	100	Y	13.15	BLG	5	1
7/30/2001	LBL	RH	0.4	33.02	10.59	0.329	8.29	0.25	100	Y	13.15	WAM	5	1
8/15/2001	GL1	LH	0	.	.	.	.	.	50	Y	13.48	LEP	3	1
8/15/2001	GL1	LH	0	.	.	.	.	.	50	Y	13.48	BLG	5	1
8/15/2001	GL1	LH	0.5	.	.	.	.	.	0	Y	13.57	LEP	1	13
8/15/2001	GL1	LH	0.5	.	.	.	.	.	0	Y	13.57	LEP	2	3
8/15/2001	GL1	LH	0.5	.	.	.	.	.	0	Y	13.57	LEP	3	4
8/15/2001	GL1	LH	0.5	.	.	.	.	.	0	Y	13.57	LEP	5	2
8/15/2001	GL1	LB	0	.	.	.	.	.	0	Y	13.50	MEN	5	13
8/15/2001	GL1	LB	1	.	.	.	.	.	0	Y	13.53	LEP	3	6
8/15/2001	GL1	LB	1	.	.	.	.	.	0	Y	13.53	LEP	5	7
8/15/2001	GL1	C	0	.	.	.	.	.	0	Y	13.57	MEN	5	10
8/15/2001	GL1	C	1	.	.	.	.	.	0	Y	13.62	DOR	3	1
8/15/2001	GL1	C	1	.	.	.	.	.	0	Y	13.62	LEP	3	2
8/15/2001	GL1	C	1	.	.	.	.	.	0	Y	13.62	MOR	3	1
8/15/2001	GL1	C	1	.	.	.	.	.	0	Y	13.62	DOL	5	6
8/15/2001	GL1	C	1	.	.	.	.	.	0	Y	13.62	LEP	5	7
8/15/2001	GL1	RB	0	.	.	.	.	.	0	Y	13.62	LEP	3	3
8/15/2001	GL1	RB	0	.	.	.	.	.	0	Y	13.62	LEP	5	2
8/15/2001	GL1	RB	0	.	.	.	.	.	0	Y	13.62	MEN	5	2
8/15/2001	GL1	RB	1	.	.	.	.	.	0	Y	13.57	0	0	0
8/15/2001	GL1	RH	0	.	.	.	.	.	0	Y	13.58	LEP	3	2
8/15/2001	GL1	RH	0	.	.	.	.	.	0	Y	13.58	BLG	5	1
8/15/2001	GL1	RH	0	.	.	.	.	.	0	Y	13.58	WAM	5	1
8/15/2001	GL1	RH	0.1	.	.	.	.	.	0	Y	13.55	DOR	3	1
8/15/2001	GL1	RH	0.1	.	.	.	.	.	0	Y	13.55	LEP	1	4
8/15/2001	GL1	RH	0.1	.	.	.	.	.	0	Y	13.55	LEP	3	4
8/15/2001	GL1	RH	0.1	.	.	.	.	.	0	Y	13.55	MOR	3	3
8/15/2001	GL1	RH	0.1	.	.	.	.	.	0	Y	13.55	BLG	5	3
8/15/2001	GL1	RH	0.1	.	.	.	.	.	0	Y	13.55	WAM	5	1
8/15/2001	GL2	LH	0	.	.	.	.	.	0	Y	13.70	LEP	1	2
8/15/2001	GL2	LH	0	.	.	.	.	.	0	Y	13.70	LEP	3	3
8/15/2001	GL2	LH	0	.	.	.	.	.	0	Y	13.70	MEN	1	2
8/15/2001	GL2	LH	0	.	.	.	.	.	0	Y	13.70	BLG	5	2
8/15/2001	GL2	LH	0	.	.	.	.	.	0	Y	13.70	LEP	5	6
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	LEP	1	1
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	MEN	3	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	BLG	5	2
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	DOL	5	1
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	POM	5	2
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	WAM	5	3
8/15/2001	GL2	LH	0.6	.	.	.	.	.	0	Y	13.72	LEP	4	1
8/15/2001	GL2	LB	0	.	.	.	.	.	0	Y	13.65	DOR	3	1
8/15/2001	GL2	LB	0	.	.	.	.	.	0	Y	13.65	LEP	3	2
8/15/2001	GL2	LB	0	.	.	.	.	.	0	Y	13.65	GAM	5	1
8/15/2001	GL2	LB	0	.	.	.	.	.	0	Y	13.65	LEP	5	4
8/15/2001	GL2	LB	0	.	.	.	.	.	0	Y	13.65	MEN	5	3
8/15/2001	GL2	LB	1	.	.	.	.	.	0	Y	13.73	DOR	3	2
8/15/2001	GL2	LB	1	.	.	.	.	.	0	Y	13.73	LEP	1	3
8/15/2001	GL2	LB	1	.	.	.	.	.	0	Y	13.73	LEP	3	6
8/15/2001	GL2	LB	1	.	.	.	.	.	0	Y	13.73	LEP	5	18
8/15/2001	GL2	LB	1	.	.	.	.	.	0	Y	13.73	MOR	5	2
8/15/2001	GL2	C	0	.	.	.	.	.	0	Y	13.73	DOR	3	2
8/15/2001	GL2	C	0	.	.	.	.	.	0	Y	13.73	LEP	3	3
8/15/2001	GL2	C	0	.	.	.	.	.	0	Y	13.73	LEK	5	1
8/15/2001	GL2	C	0	.	.	.	.	.	0	Y	13.73	LEP	5	2
8/15/2001	GL2	C	0	.	.	.	.	.	0	Y	13.73	MEN	5	5
8/15/2001	GL2	C	1	.	.	.	.	.	0	Y	13.92	DOR	3	1
8/15/2001	GL2	C	1	.	.	.	.	.	0	Y	13.92	LEP	3	7
8/15/2001	GL2	C	1	.	.	.	.	.	0	Y	13.92	LEP	5	5
8/15/2001	GL2	C	1	.	.	.	.	.	0	Y	13.92	MOR	5	1
8/15/2001	GL2	RB	0	.	.	.	.	.	0	Y	13.68	GAM	5	1
8/15/2001	GL2	RB	0	.	.	.	.	.	0	Y	13.68	LEK	5	1
8/15/2001	GL2	RB	0	.	.	.	.	.	0	Y	13.68	LEP	5	8
8/15/2001	GL2	RB	0	.	.	.	.	.	0	Y	13.68	MEN	5	10
8/15/2001	GL2	RB	1	.	.	.	.	.	0	Y	13.80	DOR	3	1
8/15/2001	GL2	RB	1	.	.	.	.	.	0	Y	13.80	LEP	1	1
8/15/2001	GL2	RB	1	.	.	.	.	.	0	Y	13.80	LEP	3	12
8/15/2001	GL2	RB	1	.	.	.	.	.	0	Y	13.80	MOR	3	1
8/15/2001	GL2	RB	1	.	.	.	.	.	0	Y	13.80	LEP	5	8
8/15/2001	GL2	RH	0	.	.	.	.	.	0	Y	13.75	BLG	5	1
8/15/2001	GL2	RH	0	.	.	.	.	.	0	Y	13.75	MEN	5	1
8/15/2001	GL2	RH	0	.	.	.	.	.	0	Y	13.75	ORS	5	1
8/15/2001	GL2	RH	0.65	.	.	.	.	.	0	Y	13.80	CYP	1	1
8/15/2001	GL2	RH	0.65	.	.	.	.	.	0	Y	13.80	BLG	5	4
8/15/2001	GL2	RH	0.65	.	.	.	.	.	0	Y	13.80	UID	3	1
8/15/2001	LBL	LH	0	.	.	.	.	.	100	Y	13.03	LEP	1	2
8/15/2001	LBL	LH	0	.	.	.	.	.	100	Y	13.03	GAM	5	2
8/15/2001	LBL	LH	0	.	.	.	.	.	100	Y	13.03	MEN	5	4
8/15/2001	LBL	LH	0	.	.	.	.	.	100	Y	13.03	POM	5	1
8/15/2001	LBL	LH	0	.	.	.	.	.	100	Y	13.03	LEP	4	1
8/15/2001	LBL	LH	0	.	.	.	.	.	100	Y	13.03	MEN	4	1
8/15/2001	LBL	LH	1	.	.	.	.	.	100	Y	13.28	LEP	1	16
8/15/2001	LBL	LH	1	.	.	.	.	.	100	Y	13.28	LEP	2	3
8/15/2001	LBL	LH	1	.	.	.	.	.	100	Y	13.28	LEP	3	5
8/15/2001	LBL	LH	1	.	.	.	.	.	100	Y	13.28	POM	5	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
8/15/2001	LBL	LH	1	.	.	.	.	.	100	Y	13.28	LEP	4	3
8/15/2001	LBL	LB	0	.	.	.	.	.	100	Y	13.28	MEN	5	4
8/15/2001	LBL	LB	1	.	.	.	.	.	100	Y	13.30	LEP	3	1
8/15/2001	LBL	LB	1	.	.	.	.	.	100	Y	13.30	LEP	5	1
8/15/2001	LBL	C	0	.	.	.	.	.	100	Y	13.32	LEP	3	1
8/15/2001	LBL	C	0	.	.	.	.	.	100	Y	13.32	MEN	5	1
8/15/2001	LBL	C	1	.	.	.	.	.	100	Y	13.40	BLG	5	1
8/15/2001	LBL	RB	0	.	.	.	.	.	0	Y	13.21	DOR	3	2
8/15/2001	LBL	RB	0	.	.	.	.	.	0	Y	13.21	LEP	2	1
8/15/2001	LBL	RB	0	.	.	.	.	.	0	Y	13.21	LEP	3	4
8/15/2001	LBL	RB	0	.	.	.	.	.	0	Y	13.21	GAM	5	1
8/15/2001	LBL	RB	0	.	.	.	.	.	0	Y	13.21	LEK	5	1
8/15/2001	LBL	RB	0	.	.	.	.	.	0	Y	13.21	MEN	5	2
8/15/2001	LBL	RB	1	.	.	.	.	.	0	Y	13.37	LEP	3	1
8/15/2001	LBL	RB	1	.	.	.	.	.	0	Y	13.37	BLG	5	3
8/15/2001	LBL	RH	0	.	.	.	.	.	100	Y	13.33	BLG	5	2
8/15/2001	LBL	RH	0	.	.	.	.	.	100	Y	13.33	LEP	5	1
8/15/2001	LBL	RH	0	.	.	.	.	.	100	Y	13.33	WAM	5	1
8/15/2001	LBL	RH	1	.	.	.	.	.	0	Y	13.37	LEP	1	3
8/15/2001	LBL	RH	1	.	.	.	.	.	0	Y	13.37	POM	5	3
8/15/2001	LBL	RH	1	.	.	.	.	.	0	Y	13.37	WAM	5	1
8/15/2001	WF	LH	0	.	.	.	.	.	85	Y	13.40	LEP	3	3
8/15/2001	WF	LH	0	.	.	.	.	.	85	Y	13.40	LEP	5	1
8/15/2001	WF	LH	0	.	.	.	.	.	85	Y	13.40	MEN	5	6
8/15/2001	WF	LH	0.5	.	.	.	.	.	60	Y	13.42	LEP	3	2
8/15/2001	WF	LH	0.5	.	.	.	.	.	60	Y	13.42	ORS	5	1
8/15/2001	WF	LB	0	.	.	.	.	.	20	Y	13.42	LEP	3	3
8/15/2001	WF	LB	0	.	.	.	.	.	20	Y	13.42	BLG	5	1
8/15/2001	WF	LB	0	.	.	.	.	.	20	Y	13.42	LEP	5	1
8/15/2001	WF	LB	0	.	.	.	.	.	20	Y	13.42	MEN	5	1
8/15/2001	WF	LB	1	.	.	.	.	.	0	Y	13.43	0	0	0
8/15/2001	WF	C	0	.	.	.	.	.	0	N	13.47	0	0	0
8/15/2001	WF	C	1	.	.	.	.	.	0	Y	13.35	BLG	5	1
8/15/2001	WF	RB	0	.	.	.	.	.	50	Y	13.47	LEP	3	1
8/15/2001	WF	RB	0	.	.	.	.	.	50	Y	13.47	MEN	5	9
8/15/2001	WF	RB	0.5	.	.	.	.	.	50	Y	13.48	POM	5	2
8/15/2001	WF	RH	0	.	.	.	.	.	100	Y	13.47	LEP	3	3
8/15/2001	WF	RH	0	.	.	.	.	.	100	Y	13.47	MEN	5	2
8/15/2001	WF	RH	1	.	.	.	.	.	100	Y	13.52	WAM	5	3
8/30/2001	GL1	LH	0	29.08	8.58	0.392	8.09	.	50	Y	12.88	BLG	5	4
8/30/2001	GL1	LH	0	29.08	8.58	0.392	8.09	.	50	Y	12.88	MOR	5	1
8/30/2001	GL1	LH	0	29.08	8.58	0.392	8.09	.	50	Y	12.88	SPS	5	2
8/30/2001	GL1	LH	0	29.08	8.58	0.392	8.09	.	50	Y	12.88	SWP	5	1
8/30/2001	GL1	LH	0	29.08	8.58	0.392	8.09	.	50	Y	12.88	WAM	5	7
8/30/2001	GL1	LH	0.4	29.08	8.58	0.392	8.09	.	25	Y	12.93	BLG	5	6
8/30/2001	GL1	LH	0.4	29.08	8.58	0.392	8.09	.	25	Y	12.93	LEP	5	2
8/30/2001	GL1	LH	0.4	29.08	8.58	0.392	8.09	.	25	Y	12.93	WAM	5	4
8/30/2001	GL1	LH	0.4	29.08	8.58	0.392	8.09	.	25	Y	12.93	UID	4	1
8/30/2001	GL1	LB	0	29.18	10.25	0.390	8.30	.	0	Y	12.93	MEN	5	3

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
8/30/2001	GL1	LB	1	28.48	6.29	0.394	7.75	.	0	Y	12.97	MOR	3	1
8/30/2001	GL1	C	0	29.28	11.92	0.387	8.51	.	0	Y	12.97	MEN	5	53
8/30/2001	GL1	C	1	27.87	4.00	0.395	7.40	.	0	Y	12.93	LEP	5	1
8/30/2001	GL1	RB	0	28.93	10.69	0.389	8.67	.	0	Y	13.00	MEN	5	10
8/30/2001	GL1	RB	1	27.95	4.54	0.394	7.46	.	0	Y	13.05	0	0	0
8/30/2001	GL1	RH	0	28.57	9.46	0.390	8.82	.	10	Y	13.00	BLG	5	1
8/30/2001	GL1	RH	0	28.57	9.46	0.390	8.82	.	10	Y	13.00	GAM	5	2
8/30/2001	GL1	RH	0	28.57	9.46	0.390	8.82	.	10	Y	13.00	WAM	5	2
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	LEP	1	1
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	LEP	2	1
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	LEP	3	1
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	MOR	2	2
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	MOR	3	5
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	BLG	5	1
8/30/2001	GL1	RH	0.8	28.03	5.08	0.393	7.52	.	0	Y	13.03	SPS	5	1
8/30/2001	GL2	LH	0	29.38	10.34	0.399	8.22	.	0	Y	12.68	CYP	1	1
8/30/2001	GL2	LH	0	29.38	10.34	0.399	8.22	.	0	Y	12.68	LEP	1	2
8/30/2001	GL2	LH	0	29.38	10.34	0.399	8.22	.	0	Y	12.68	LEP	2	2
8/30/2001	GL2	LH	0	29.38	10.34	0.399	8.22	.	0	Y	12.68	LEP	3	2
8/30/2001	GL2	LH	0	29.38	10.34	0.399	8.22	.	0	Y	12.68	UID	4	1
8/30/2001	GL2	LH	0.5	29.38	10.34	0.399	8.22	.	0	Y	12.77	GAM	5	1
8/30/2001	GL2	LH	0.5	29.38	10.34	0.399	8.22	.	0	Y	12.77	LEP	5	2
8/30/2001	GL2	LH	0.5	29.38	10.34	0.399	8.22	.	0	Y	12.77	MEN	5	1
8/30/2001	GL2	LB	0	29.26	9.56	0.399	8.24	.	0	Y	12.72	GAM	5	2
8/30/2001	GL2	LB	0	29.26	9.56	0.399	8.24	.	0	Y	12.72	LEP	5	7
8/30/2001	GL2	LB	0	29.26	9.56	0.399	8.24	.	0	Y	12.72	MEN	5	3
8/30/2001	GL2	LB	1	28.75	7.33	0.398	7.76	.	0	Y	12.75	0	0	0
8/30/2001	GL2	C	0	29.14	8.78	0.398	8.25	.	0	Y	12.75	LEP	5	5
8/30/2001	GL2	C	0	29.14	8.78	0.398	8.25	.	0	Y	12.75	MEN	5	7
8/30/2001	GL2	C	0	29.14	8.78	0.398	8.25	.	0	Y	12.75	MOR	5	1
8/30/2001	GL2	C	1	28.12	4.32	0.396	7.29	.	0	Y	12.83	LEP	3	1
8/30/2001	GL2	RB	0	29.27	9.97	0.399	8.28	.	0	Y	12.78	BLG	5	1
8/30/2001	GL2	RB	0	29.27	9.97	0.399	8.28	.	0	Y	12.78	LEP	5	7
8/30/2001	GL2	RB	0	29.27	9.97	0.399	8.28	.	0	Y	12.78	MEN	5	5
8/30/2001	GL2	RB	1	28.76	7.74	0.398	7.80	.	0	Y	12.80	0	0	0
8/30/2001	GL2	RH	0	29.40	11.16	0.399	8.31	.	0	Y	12.77	GAM	5	1
8/30/2001	GL2	RH	0	29.40	11.16	0.399	8.31	.	0	Y	12.77	LEP	5	5
8/30/2001	GL2	RH	0.5	29.40	11.16	0.399	8.31	.	0	Y	12.82	LEP	2	2
8/30/2001	GL2	RH	0.5	29.40	11.16	0.399	8.31	.	0	Y	12.82	LEP	3	1
8/30/2001	GL2	RH	0.5	29.40	11.16	0.399	8.31	.	0	Y	12.82	BLG	5	1
8/30/2001	WF	LH	0	28.79	4.94	0.393	7.21	.	80	Y	13.43	LEP	3	3
8/30/2001	WF	LH	1	28.28	2.71	0.393	7.10	.	50	Y	13.43	LEP	3	1
8/30/2001	WF	LH	1	28.28	2.71	0.393	7.10	.	50	Y	13.43	WAM	5	2
8/30/2001	WF	LB	0	28.84	5.19	0.393	7.25	.	0	Y	13.43	0	0	0
8/30/2001	WF	LB	1	28.19	2.62	0.394	7.09	.	0	Y	13.45	0	0	0
8/30/2001	WF	C	0	28.89	5.44	0.392	7.28	.	0	Y	13.62	GAM	5	1
8/30/2001	WF	C	1	28.10	2.53	0.395	7.08	.	0	Y	13.35	0	0	0
8/30/2001	WF	RB	0	28.91	4.70	0.391	7.26	.	0	N	13.38	0	0	0
8/30/2001	WF	RB	0.5	28.52	3.25	0.393	7.16	.	50	Y	13.52	BLG	5	3

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
8/30/2001	WF	RH	0	28.93	3.96	0.390	7.24	.	100	Y	13.45	BLG	5	1
8/30/2001	WF	RH	0	28.93	3.96	0.390	7.24	.	100	Y	13.45	DOL	5	1
8/30/2001	WF	RH	0	28.93	3.96	0.390	7.24	.	100	Y	13.45	POM	5	1
8/30/2001	WF	RH	0	28.93	3.96	0.390	7.24	.	100	Y	13.45	WAM	5	4
8/30/2001	WF	RH	0.5	28.93	3.96	0.390	7.24	.	100	Y	13.50	BLG	5	2
8/30/2001	WF	RH	0.5	28.93	3.96	0.390	7.24	.	100	Y	13.50	WAM	5	4
8/30/2001	LBL	LH	0	28.93	6.87	0.435	7.43	.	75	Y	13.57	0	0	0
8/30/2001	LBL	LH	1	28.71	6.30	0.436	7.35	.	50	Y	13.57	BLG	5	1
8/30/2001	LBL	LH	1	28.71	6.30	0.436	7.35	.	50	Y	13.57	WAM	5	1
8/30/2001	LBL	LB	0	28.92	6.96	0.439	7.45	.	0	Y	13.57	0	0	0
8/30/2001	LBL	LB	1	28.09	4.39	0.425	7.17	.	0	Y	13.58	0	0	0
8/30/2001	LBL	C	0	28.91	7.05	0.442	7.47	.	0	Y	13.58	DOR	5	1
8/30/2001	LBL	C	1	27.47	2.48	0.413	6.99	.	0	N	13.62	0	0	0
8/30/2001	LBL	RB	0	28.92	7.08	0.442	7.50	.	50	Y	13.58	MEN	5	1
8/30/2001	LBL	RB	1	28.18	4.72	0.427	7.24	.	50	N	13.60	0	0	0
8/30/2001	LBL	RH	0	28.93	7.11	0.442	7.52	.	100	Y	13.62	BLG	5	4
8/30/2001	LBL	RH	0	28.93	7.11	0.442	7.52	.	100	Y	13.62	WAM	5	1
8/30/2001	LBL	RH	0.75	28.89	6.96	0.441	7.49	.	75	Y	13.60	MOR	3	1
9/13/2001	WF	LH	0	30.59	10.06	0.365	7.36	0.31	50	Y	13.63	WAM	5	1
9/13/2001	WF	LH	1	29.90	7.42	0.366	7.34	0.31	75	Y	13.57	0	0	0
9/13/2001	WF	LB	0	30.68	10.35	0.365	7.65	.	0	Y	13.57	LEP	5	1
9/13/2001	WF	LB	0	30.68	10.35	0.365	7.65	.	0	Y	13.57	MEN	5	1
9/13/2001	WF	LB	1	29.22	5.75	0.371	7.22	.	10	Y	13.55	0	0	0
9/13/2001	WF	C	0	30.77	10.63	0.365	7.93	0.33	0	N	1.00	0	0	0
9/13/2001	WF	C	1	28.53	4.07	0.376	7.09	0.33	0	Y	13.55	BLG	5	1
9/13/2001	WF	RB	0	30.96	10.58	0.362	8.09	.	25	Y	13.53	LEP	5	4
9/13/2001	WF	RB	0	30.96	10.58	0.362	8.09	.	25	Y	13.53	MEN	5	1
9/13/2001	WF	RB	1	29.79	7.17	0.369	7.51	.	50	Y	13.55	0	0	0
9/13/2001	WF	RH	0	31.14	10.53	0.358	8.24	0.30	100	Y	13.53	BLG	5	2
9/13/2001	WF	RH	0	31.14	10.53	0.358	8.24	0.30	100	Y	13.53	LMB	5	1
9/13/2001	WF	RH	0	31.14	10.53	0.358	8.24	0.30	100	Y	13.53	WAM	5	2
9/13/2001	WF	RH	1	31.04	10.27	0.361	7.92	0.30	100	Y	13.55	0	0	0
9/13/2001	LBL	LH	0	30.65	10.01	0.345	7.67	0.30	30	Y	13.67	BLG	5	1
9/13/2001	LBL	LH	0.5	30.59	9.94	0.366	7.64	0.30	25	Y	13.68	0	0	0
9/13/2001	LBL	LB	0	30.59	9.94	0.356	7.68	.	0	Y	13.65	MEN	5	1
9/13/2001	LBL	LB	1	28.99	5.55	0.357	7.21	.	0	Y	13.68	0	0	0
9/13/2001	LBL	C	0	30.53	9.87	0.367	7.69	0.35	50	Y	13.70	LEK	5	2
9/13/2001	LBL	C	0	30.53	9.87	0.367	7.69	0.35	50	Y	13.70	LEP	5	1
9/13/2001	LBL	C	1	27.39	1.16	0.347	6.77	0.35	0	Y	13.75	0	0	0
9/13/2001	LBL	RB	0	30.58	9.41	0.368	7.68	.	0	Y	13.73	0	0	0
9/13/2001	LBL	RB	1	29.03	4.93	0.357	7.22	.	50	Y	13.75	LEP	2	3
9/13/2001	LBL	RH	0	30.63	8.95	0.369	7.66	0.38	25	Y	13.72	LEP	3	1
9/13/2001	LBL	RH	0	30.63	8.95	0.369	7.66	0.38	25	Y	13.72	BLG	5	1
9/13/2001	LBL	RH	0	30.63	8.95	0.369	7.66	0.38	25	Y	13.72	MEN	5	1
9/13/2001	LBL	RH	1	30.67	8.69	0.367	7.67	0.38	100	Y	13.75	0	0	0
9/13/2001	GL1	LH	0	30.58	10.08	0.399	8.25	0.25	75	Y	14.15	GAM	5	2
9/13/2001	GL1	LH	0	30.58	10.08	0.399	8.25	0.25	75	Y	14.15	WAM	5	1
9/13/2001	GL1	LH	1	.	.	.	.	0.25	25	Y	14.15	BLG	5	2
9/13/2001	GL1	LH	1	.	.	.	.	0.25	25	Y	14.15	WAM	5	12

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
9/13/2001	GL1	LB	0	30.50	9.93	0.401	8.22	.	0	Y	14.15	MEN	5	14
9/13/2001	GL1	LB	1	.	.	.	.	.	0	Y	14.15	0	0	0
9/13/2001	GL1	C	0	30.42	9.78	0.402	8.19	0.27	0	Y	14.13	MEN	5	114
9/13/2001	GL1	C	1	29.42	7.04	0.402	7.71	0.27	0	Y	14.08	0	0	0
9/13/2001	GL1	RB	0	30.40	8.99	0.402	8.11	.	0	Y	14.10	BLG	5	1
9/13/2001	GL1	RB	0	30.40	8.99	0.402	8.11	.	0	Y	14.10	MEN	5	3
9/13/2001	GL1	RB	1	29.90	7.62	0.403	7.86	.	0	Y	14.08	CLU	3	1
9/13/2001	GL1	RB	1	29.90	7.62	0.403	7.86	.	0	Y	14.08	LEP	3	2
9/13/2001	GL1	RB	1	29.90	7.62	0.403	7.86	.	0	Y	14.08	BLU	5	1
9/13/2001	GL1	RH	0	30.38	8.19	0.402	8.03	0.19	10	Y	14.23	BLG	5	3
9/13/2001	GL1	RH	0	30.38	8.19	0.402	8.03	0.19	10	Y	14.23	WAM	5	2
9/13/2001	GL1	RH	1	30.38	8.20	0.403	8.01	0.19	0	Y	14.08	CYP	1	5
9/13/2001	GL1	RH	1	30.38	8.20	0.403	8.01	0.19	0	Y	14.08	CYP	2	1
9/13/2001	GL1	RH	1	30.38	8.20	0.403	8.01	0.19	0	Y	14.08	LEP	2	1
9/13/2001	GL1	RH	1	30.38	8.20	0.403	8.01	0.19	0	Y	14.08	BGL	5	3
9/13/2001	GL1	RH	1	30.38	8.20	0.403	8.01	0.19	0	Y	14.08	ORS	5	2
9/13/2001	GL2	LH	0	31.28	9.59	0.400	8.00	0.28	50	Y	14.25	BLG	5	3
9/13/2001	GL2	LH	0	31.28	9.59	0.400	8.00	0.28	50	Y	14.25	DOL	5	5
9/13/2001	GL2	LH	1	31.22	9.69	0.400	8.10	0.28	50	Y	14.25	DOL	5	1
9/13/2001	GL2	LH	1	31.22	9.69	0.400	8.10	0.28	50	Y	14.25	POM	5	1
9/13/2001	GL2	LB	0	31.24	9.36	0.402	8.11	.	10	Y	14.25	MEN	3	1
9/13/2001	GL2	LB	0	31.24	9.36	0.402	8.11	.	10	Y	14.25	BLG	5	2
9/13/2001	GL2	LB	0	31.24	9.36	0.402	8.11	.	10	Y	14.25	MEN	5	2
9/13/2001	GL2	LB	0	31.24	9.36	0.402	8.11	.	10	Y	14.25	MEN	4	4
9/13/2001	GL2	LB	1	30.55	8.05	0.398	7.77	.	10	Y	14.27	0	0	0
9/13/2001	GL2	C	0	31.20	9.12	0.403	8.22	0.34	0	Y	14.27	MEN	3	1
9/13/2001	GL2	C	0	31.20	9.12	0.403	8.22	0.34	0	Y	14.27	AMI	5	3
9/13/2001	GL2	C	0	31.20	9.12	0.403	8.22	0.34	0	Y	14.27	BLG	5	5
9/13/2001	GL2	C	0	31.20	9.12	0.403	8.22	0.34	0	Y	14.27	DOR	5	1
9/13/2001	GL2	C	0	31.20	9.12	0.403	8.22	0.34	0	Y	14.27	GAM	5	16
9/13/2001	GL2	C	0	31.20	9.12	0.403	8.22	0.34	0	Y	14.27	MEN	5	3
9/13/2001	GL2	C	1	29.88	6.40	0.395	7.44	0.34	0	N	1.00	0	0	0
9/13/2001	GL2	RB	0	31.20	9.53	0.403	8.21	.	0	Y	14.27	MEN	5	2
9/13/2001	GL2	RB	1	30.53	8.11	0.399	7.83	.	0	N	1.00	0	0	0
9/13/2001	GL2	RH	0	31.20	9.93	0.403	8.20	0.30	0	Y	14.25	BLG	5	2
9/13/2001	GL2	RH	1	31.18	9.82	0.403	8.21	0.30	0	Y	14.23	BLG	5	2
9/13/2001	GL2	RH	1	31.18	9.82	0.403	8.21	0.30	0	Y	14.23	ORS	5	2
3/5/2002	WF	LH	0	10.20	3.72	0.387	6.87	0.62	0	Y	13.48	0	0	0
3/5/2002	WF	LH	1	10.31	3.44	0.387	6.81	0.62	15	Y	13.50	0	0	0
3/5/2002	WF	LB	0	10.21	4.39	0.387	7.00	.	0	N	1.00	0	0	0
3/5/2002	WF	LB	1	10.21	4.24	0.387	6.95	.	20	Y	13.50	PRP	1	1
3/5/2002	WF	LB	1	10.21	4.24	0.387	6.95	.	20	Y	13.50	PRP	2	1
3/5/2002	WF	C	0	10.22	5.06	0.387	7.12	0.52	0	Y	13.55	0	0	0
3/5/2002	WF	C	1	10.11	5.04	0.387	7.08	0.52	0	Y	13.50	0	0	0
3/5/2002	WF	RB	0	11.27	4.92	0.387	7.15	.	10	Y	13.57	0	0	0
3/5/2002	WF	RB	1	11.04	4.96	0.387	7.15	.	50	Y	13.57	0	0	0
3/5/2002	WF	RH	0	12.32	4.78	0.386	7.17	0.57	75	Y	13.55	0	0	0
3/5/2002	WF	RH	1	11.97	4.88	0.387	7.21	0.57	95	Y	13.57	0	0	0
3/5/2002	LBL	LH	0	10.13	4.57	0.385	6.75	0.50	50	Y	13.40	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
3/5/2002	LBL	LH	1	9.86	4.38	0.386	6.24	0.50	50	Y	13.40	0	0	0
3/5/2002	LBL	LB	0	10.07	4.76	0.386	6.78	.	0	Y	13.40	0	0	0
3/5/2002	LBL	LB	1	9.86	4.67	0.386	6.53	.	0	Y	13.40	0	0	0
3/5/2002	LBL	C	0	10.00	4.94	0.386	6.81	0.55	0	Y	13.37	0	0	0
3/5/2002	LBL	C	1	9.85	4.96	0.386	6.81	0.55	0	Y	13.40	0	0	0
3/5/2002	LBL	RB	0	10.44	5.03	0.386	7.12	.	25	Y	13.38	0	0	0
3/5/2002	LBL	RB	1	10.18	5.15	0.386	7.15	.	0	Y	13.38	0	0	0
3/5/2002	LBL	RH	0	10.87	5.12	0.386	7.42	0.52	50	Y	1.00	0	0	0
3/5/2002	LBL	RH	1	10.50	5.34	0.385	7.48	0.52	25	Y	13.35	0	0	0
3/5/2002	GL1	LH	0	12.42	4.33	0.429	7.34	0.30	25	Y	15.33	0	0	0
3/5/2002	GL1	LH	1	11.89	4.13	0.428	7.14	0.30	50	Y	15.32	0	0	0
3/5/2002	GL1	LB	0	11.79	4.63	0.428	7.37	.	0	Y	15.32	0	0	0
3/5/2002	GL1	LB	1	10.72	4.49	0.430	7.28	.	0	Y	15.32	0	0	0
3/5/2002	GL1	C	0	11.16	4.92	0.426	7.40	0.40	0	Y	15.32	0	0	0
3/5/2002	GL1	C	1	9.54	4.84	0.431	7.42	0.40	0	Y	15.57	0	0	0
3/5/2002	GL1	RB	0	11.38	4.85	0.423	7.41	.	0	N	15.58	0	0	0
3/5/2002	GL1	RB	1	10.19	4.86	0.424	7.42	.	0	Y	15.55	0	0	0
3/5/2002	GL1	RH	0	11.60	4.78	0.419	7.41	0.40	10	Y	15.53	0	0	0
3/5/2002	GL1	RH	1	10.83	4.88	0.416	7.42	0.40	10	Y	15.55	0	0	0
3/5/2002	GL2	LH	0	10.39	3.79	0.380	6.84	1.45	0	Y	15.42	ICT	1	15
3/5/2002	GL2	LH	0	10.39	3.79	0.380	6.84	1.45	0	Y	15.42	PER	1	8
3/5/2002	GL2	LH	0	10.39	3.79	0.380	6.84	1.45	0	Y	15.42	PER	2	1
3/5/2002	GL2	LH	0	10.39	3.79	0.380	6.84	1.45	0	Y	15.42	PRP	3	1
3/5/2002	GL2	LH	0	10.39	3.79	0.380	6.84	1.45	0	Y	15.42	UID	4	1
3/5/2002	GL2	LH	0.5	10.16	3.52	0.389	6.88	1.45	0	Y	15.47	ICT	1	3
3/5/2002	GL2	LH	0.5	10.16	3.52	0.389	6.88	1.45	0	Y	15.47	PER	1	64
3/5/2002	GL2	LH	0.5	10.16	3.52	0.389	6.88	1.45	0	Y	15.47	PER	2	2
3/5/2002	GL2	LH	0.5	10.16	3.52	0.389	6.88	1.45	0	Y	15.47	PRP	3	1
3/5/2002	GL2	LB	0	10.26	4.28	0.384	6.91	.	0	Y	15.42	0	0	0
3/5/2002	GL2	LB	1	9.89	4.20	0.389	6.94	.	0	Y	15.43	ICT	1	1
3/5/2002	GL2	C	0	10.13	4.76	0.388	6.98	1.40	0	Y	15.43	0	0	0
3/5/2002	GL2	C	1	9.62	4.88	0.389	6.99	1.40	0	Y	15.47	0	0	0
3/5/2002	GL2	RB	0	10.01	4.76	0.389	7.51	.	0	Y	15.48	ICT	1	5
3/5/2002	GL2	RB	1	9.75	4.87	0.389	7.01	.	0	Y	15.52	ICT	1	2
3/5/2002	GL2	RH	0	9.88	4.76	0.389	8.04	0.80	0	Y	15.45	CAP	1	1
3/5/2002	GL2	RH	0	9.88	4.76	0.389	8.04	0.80	0	Y	15.45	ICT	1	37
3/5/2002	GL2	RH	0	9.88	4.76	0.389	8.04	0.80	0	Y	15.45	PER	1	4
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	ICT	1	1
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	PER	1	3
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	PER	2	2
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	PRP	3	1
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	ORS	5	1
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	ICT	4	6
3/5/2002	GL2	RH	0.5	9.87	4.85	0.389	7.03	0.80	0	Y	15.52	PER	4	1
3/19/2002	LBL	LH	0	26.08	6.16	0.268	6.18	0.66	100	Y	14.28	0	0	0
3/19/2002	LBL	LH	0.75	25.21	3.54	0.268	6.10	0.66	75	Y	14.30	POM	1	1
3/19/2002	LBL	LH	0.75	25.21	3.54	0.268	6.10	0.66	75	Y	14.30	PRP	5	1
3/19/2002	LBL	LB	0	25.71	5.24	0.267	6.28	.	35	Y	14.28	0	0	0
3/19/2002	LBL	LB	1	24.85	3.24	0.268	6.19	.	25	Y	14.33	PER	3	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
3/19/2002	LBL	C	0	25.33	4.32	0.266	6.38	0.70	0	Y	14.33	0	0	0
3/19/2002	LBL	C	1	24.48	2.94	0.267	6.28	0.70	0	Y	14.37	0	0	0
3/19/2002	LBL	RB	0	25.70	5.07	0.264	6.46	.	50	Y	14.35	0	0	0
3/19/2002	LBL	RB	1	25.21	4.24	0.265	6.39	.	50	Y	14.37	PER	2	1
3/19/2002	LBL	RB	1	25.21	4.24	0.265	6.39	.	50	Y	14.37	PER	3	1
3/19/2002	LBL	RH	0	26.06	5.82	0.262	6.53	0.62	75	Y	14.33	0	0	0
3/19/2002	LBL	RH	1	25.93	5.54	0.262	6.50	0.62	100	Y	14.35	PER	1	1
3/19/2002	WF	LH	0	24.96	3.56	0.268	6.91	0.48	100	Y	14.17	0	0	0
3/19/2002	WF	LH	0.75	24.86	3.19	0.268	6.93	0.48	100	Y	14.17	DOR	1	1
3/19/2002	WF	LH	0.75	24.86	3.19	0.268	6.93	0.48	100	Y	14.17	LEP	1	2
3/19/2002	WF	LH	0.75	24.86	3.19	0.268	6.93	0.48	100	Y	14.17	PER	2	1
3/19/2002	WF	LB	0	25.02	3.52	0.268	6.91	.	25	Y	14.18	0	0	0
3/19/2002	WF	LB	1	24.80	3.13	0.268	6.91	.	50	Y	14.18	LMB	2	1
3/19/2002	WF	LB	1	24.80	3.13	0.268	6.91	.	50	Y	14.18	PER	3	2
3/19/2002	WF	C	0	25.07	3.47	0.268	6.91	0.67	0	Y	14.22	0	0	0
3/19/2002	WF	C	1	24.73	3.07	0.268	6.89	0.67	0	Y	14.25	0	0	0
3/19/2002	WF	RB	0	26.12	4.83	0.266	6.91	.	50	Y	14.22	CAP	2	1
3/19/2002	WF	RB	0	26.12	4.83	0.266	6.91	.	50	Y	14.22	LMB	2	1
3/19/2002	WF	RB	0	26.12	4.83	0.266	6.91	.	50	Y	14.22	UID	4	1
3/19/2002	WF	RB	1	25.77	4.17	0.266	6.90	.	50	Y	14.27	PER	1	1
3/19/2002	WF	RH	0	27.16	6.19	0.263	6.91	0.62	100	Y	14.27	0	0	0
3/19/2002	WF	RH	1	26.81	5.27	0.264	6.90	0.62	100	Y	14.27	PER	1	1
3/19/2002	WF	RH	1	26.81	5.27	0.264	6.90	0.62	100	Y	14.27	PRP	3	1
3/19/2002	GL1	LH	0	24.97	9.99	0.293	7.24	0.27	10	Y	14.00	0	0	0
3/19/2002	GL1	LB	0	24.63	9.59	0.295	7.28	.	0	Y	14.00	DOR	1	1
3/19/2002	GL1	LB	0	24.63	9.59	0.295	7.28	.	0	Y	14.00	PER	1	13
3/19/2002	GL1	LB	0	24.63	9.59	0.295	7.28	.	0	Y	14.00	UID	4	1
3/19/2002	GL1	LH	0.75	25.07	9.97	0.293	7.16	0.27	15	Y	14.02	0	0	0
3/19/2002	GL1	LB	1	24.66	8.67	0.296	7.23	.	0	Y	14.07	0	0	0
3/19/2002	GL1	C	0	24.29	9.19	0.296	7.32	0.29	0	N	14.03	0	0	0
3/19/2002	GL1	RH	0	25.12	9.70	0.305	7.35	0.40	20	Y	14.03	0	0	0
3/19/2002	GL1	RB	0	24.71	9.45	0.301	7.34	.	0	Y	14.08	0	0	0
3/19/2002	GL1	RH	0.5	25.12	9.35	0.305	7.32	0.40	25	Y	14.08	CYP	1	1
3/19/2002	GL1	RH	0.5	25.12	9.35	0.305	7.32	0.40	25	Y	14.08	POM	1	1
3/19/2002	GL1	RB	1	24.68	8.36	0.302	7.31	.	0	Y	14.10	0	0	0
3/19/2002	GL1	C	1	24.24	7.37	0.298	7.29	0.29	0	Y	14.13	0	0	0
3/19/2002	GL2	LH	0	24.59	9.41	0.308	7.31	0.36	0	Y	13.72	MEN	1	2
3/19/2002	GL2	LH	0	24.59	9.41	0.308	7.31	0.36	0	Y	13.72	PER	2	1
3/19/2002	GL2	LB	0	24.62	9.50	0.308	7.34	.	0	N	13.73	0	0	0
3/19/2002	GL2	LH	0.5	24.55	9.40	0.309	7.25	0.36	0	Y	13.77	CYP	1	1
3/19/2002	GL2	LH	0.5	24.55	9.40	0.309	7.25	0.36	0	Y	13.77	PER	2	9
3/19/2002	GL2	LH	0.5	24.55	9.40	0.309	7.25	0.36	0	Y	13.77	PER	3	4
3/19/2002	GL2	LB	1	23.73	8.77	0.311	7.29	.	0	Y	13.78	PER	1	1
3/19/2002	GL2	LB	1	23.73	8.77	0.311	7.29	.	0	Y	13.78	PER	2	5
3/19/2002	GL2	LB	1	23.73	8.77	0.311	7.29	.	0	Y	13.78	PER	3	3
3/19/2002	GL2	LB	1	23.73	8.77	0.311	7.29	.	0	Y	13.78	POM	1	1
3/19/2002	GL2	C	0	24.64	9.58	0.307	7.36	0.47	0	Y	13.80	0	0	0
3/19/2002	GL2	RH	0	24.56	9.52	0.308	7.47	0.42	0	Y	13.80	MEN	1	4
3/19/2002	GL2	RH	0	24.56	9.52	0.308	7.47	0.42	0	Y	13.80	PER	2	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
3/19/2002	GL2	RB	0	24.60	9.55	0.308	7.42	.	0	Y	13.82	PER	2	1
3/19/2002	GL2	RH	1	24.62	9.52	0.307	7.40	0.42	0	Y	13.82	MEN	1	6
3/19/2002	GL2	RH	1	24.62	9.52	0.307	7.40	0.42	0	Y	13.82	PER	2	2
3/19/2002	GL2	RH	1	24.62	9.52	0.307	7.40	0.42	0	Y	13.82	POM	1	3
3/19/2002	GL2	RB	1	23.77	8.83	0.310	7.36	.	0	Y	13.85	POM	1	1
3/19/2002	GL2	C	1	22.91	8.13	0.313	7.32	0.47	0	Y	13.88	0	0	0
4/9/2002	LBL	LH	0	19.92	3.61	0.270	7.45	1.05	0	Y	13.40	GAM	5	1
4/9/2002	LBL	LH	0	19.92	3.61	0.270	7.45	1.05	0	Y	13.40	LMB	5	4
4/9/2002	LBL	LB	0	20.07	3.67	0.272	7.31	.	0	Y	13.40	GAM	5	1
4/9/2002	LBL	LH	1	19.44	3.56	0.270	7.53	1.05	100	Y	13.43	PUG	5	1
4/9/2002	LBL	LH	1	19.44	3.56	0.270	7.53	1.05	100	Y	13.43	SWP	5	1
4/9/2002	LBL	LB	1	19.34	3.28	0.271	7.38	.	100	Y	13.43	0	0	0
4/9/2002	LBL	C	0	20.22	3.73	0.274	7.17	0.96	0	Y	13.48	LMB	5	3
4/9/2002	LBL	RH	0	19.77	3.69	0.275	7.12	0.92	0	Y	13.47	LMB	5	1
4/9/2002	LBL	RB	0	20.00	3.71	0.275	7.15	.	0	Y	13.48	LMB	5	1
4/9/2002	LBL	RH	1	19.47	3.59	0.273	7.14	0.92	100	N	13.52	LMB	5	1
4/9/2002	LBL	RB	1	19.36	3.29	0.272	7.19	.	100	N	1.00	0	0	0
4/9/2002	LBL	C	1	19.24	2.99	0.271	7.23	0.96	0	N	13.52	0	0	0
4/9/2002	WF	LH	0	19.74	3.43	0.269	7.06	1.02	25	Y	14.10	0	0	0
4/9/2002	WF	LB	0	20.06	3.63	0.269	7.04	.	0	Y	14.12	0	0	0
4/9/2002	WF	LH	1	19.72	3.48	0.269	7.08	1.02	100	Y	14.13	0	0	0
4/9/2002	WF	LB	1	19.57	3.42	0.268	7.05	.	100	Y	14.13	POM	5	1
4/9/2002	WF	C	0	20.37	3.82	0.269	7.02	0.85	0	Y	14.15	0	0	0
4/9/2002	WF	RH	0	20.76	4.14	0.269	6.99	0.99	0	Y	14.20	0	0	0
4/9/2002	WF	RB	0	20.57	3.98	0.269	7.01	.	0	Y	14.22	LMB	5	2
4/9/2002	WF	RH	1	19.71	3.86	0.270	7.00	0.99	100	Y	14.22	0	0	0
4/9/2002	WF	RB	1	19.56	3.61	0.269	7.01	.	100	Y	14.23	0	0	0
4/9/2002	WF	C	1	19.41	3.35	0.267	7.01	0.85	0	Y	14.23	SWP	5	1
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	CYP	1	2
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	ICT	1	1
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	MEN	1	1
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	MEN	2	4
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	MEN	3	3
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	POM	2	1
4/9/2002	GL1	LH	0	19.25	5.91	0.244	7.14	0.31	25	Y	15.27	UID	4	1
4/9/2002	GL1	LB	0	19.61	5.36	0.245	7.13	.	0	Y	15.27	0	0	0
4/9/2002	GL1	LH	1	16.20	5.65	0.242	7.16	0.31	100	Y	15.25	PER	1	1
4/9/2002	GL1	LH	1	16.20	5.65	0.242	7.16	0.31	100	Y	15.25	ETH	5	1
4/9/2002	GL1	LH	1	16.20	5.65	0.242	7.16	0.31	100	Y	15.25	LMB	5	1
4/9/2002	GL1	LB	1	16.07	6.06	0.242	7.14	0.31	100	Y	15.27	0	0	0
4/9/2002	GL1	C	0	19.97	4.80	0.245	7.11	0.40	0	Y	15.27	0	0	0
4/9/2002	GL1	RH	0	20.13	2.84	0.259	7.05	1.30	0	Y	15.32	LMB	5	1
4/9/2002	GL1	RB	0	20.05	3.82	0.252	7.08	.	0	Y	15.32	0	0	0
4/9/2002	GL1	RH	1	20.02	3.25	0.259	7.08	1.30	100	Y	15.33	CYP	1	7
4/9/2002	GL1	RH	1	20.02	3.25	0.259	7.08	1.30	100	Y	15.33	MEN	1	6
4/9/2002	GL1	RH	1	20.02	3.25	0.259	7.08	1.30	100	Y	15.33	MEN	3	2
4/9/2002	GL1	RH	1	20.02	3.25	0.259	7.08	1.30	100	Y	15.33	PUG	2	1
4/9/2002	GL1	RH	1	20.02	3.25	0.259	7.08	1.30	100	Y	15.33	PUG	3	1
4/9/2002	GL1	RH	1	20.02	3.25	0.259	7.08	1.30	100	Y	15.33	UID	4	4

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
4/9/2002	GL1	RB	1	17.98	4.86	0.251	7.10	.	100	Y	15.35	0	0	0
4/9/2002	GL1	C	1	15.93	6.46	0.242	7.12	0.40	0	Y	15.35	0	0	0
4/9/2002	GL2	LH	0	19.36	4.16	0.248	7.05	0.73	0	Y	15.83	0	0	0
4/9/2002	GL2	LB	0	19.18	4.15	0.247	7.04	.	0	Y	15.83	0	0	0
4/9/2002	GL2	LH	1	17.21	3.72	0.244	7.09	0.73	0	Y	15.88	0	0	0
4/9/2002	GL2	LB	1	17.02	4.14	0.244	7.08	.	0	Y	15.88	0	0	0
4/9/2002	GL2	C	0	19.00	4.14	0.245	7.03	0.74	0	Y	15.88	0	0	0
4/9/2002	GL2	RH	0	19.31	4.44	0.248	7.00	0.78	0	Y	15.88	LMB	5	1
4/9/2002	GL2	RB	0	19.16	4.29	0.247	7.02	.	0	Y	15.90	0	0	0
4/9/2002	GL2	RH	1	18.13	2.90	0.247	7.01	0.78	40	Y	15.92	CYP	2	1
4/9/2002	GL2	RB	1	17.48	3.73	0.245	7.04	.	0	Y	15.93	SWP	5	1
4/9/2002	GL2	C	1	16.82	4.55	0.243	7.07	0.74	0	Y	15.97	0	0	0
4/23/2002	LBL	LH	0	24.40	2.46	0.237	7.23	0.90	100	Y	13.18	GAM	5	1
4/23/2002	LBL	LH	0	24.40	2.46	0.237	7.23	0.90	100	Y	13.18	LMB	5	5
4/23/2002	LBL	LB	0	24.56	2.47	0.237	7.13	.	0	Y	13.18	CRS	5	1
4/23/2002	LBL	LB	0	24.56	2.47	0.237	7.13	.	0	Y	13.18	PUG	5	1
4/23/2002	LBL	LB	0	24.56	2.47	0.237	7.13	.	0	Y	13.18	SWP	5	1
4/23/2002	LBL	LH	1	24.31	2.31	0.235	7.14	0.90	100	Y	13.18	LMB	5	1
4/23/2002	LBL	LH	1	24.31	2.31	0.235	7.14	0.90	100	Y	13.18	MEN	5	1
4/23/2002	LBL	LH	1	24.31	2.31	0.235	7.14	0.90	100	Y	13.18	SWP	5	6
4/23/2002	LBL	LB	1	24.22	2.24	0.235	7.02	.	50	Y	13.18	LMB	5	1
4/23/2002	LBL	LB	1	24.22	2.24	0.235	7.02	.	50	Y	13.18	SWP	5	3
4/23/2002	LBL	C	0	24.72	2.48	0.236	7.03	0.92	0	Y	13.18	GAM	5	1
4/23/2002	LBL	C	0	24.72	2.48	0.236	7.03	0.92	0	Y	13.18	LEP	5	1
4/23/2002	LBL	C	0	24.72	2.48	0.236	7.03	0.92	0	Y	13.18	SWP	5	1
4/23/2002	LBL	RH	0	24.29	2.34	0.234	7.02	0.70	0	Y	13.18	LMB	5	1
4/23/2002	LBL	RB	0	24.51	2.41	0.235	7.03	.	0	Y	13.18	0	0	0
4/23/2002	LBL	RH	1	24.10	2.27	0.234	6.91	0.70	100	N	13.18	0	0	0
4/23/2002	LBL	RB	1	24.12	2.22	0.234	6.91	.	100	Y	13.18	LMB	5	4
4/23/2002	LBL	C	1	24.13	2.17	0.234	6.90	0.92	0	Y	13.18	0	0	0
4/23/2002	WF	LH	0	24.26	2.34	0.239	6.77	0.85	50	Y	13.78	GAM	5	1
4/23/2002	WF	LH	0	24.26	2.34	0.239	6.77	0.85	50	Y	13.78	SWP	5	1
4/23/2002	WF	LB	0	24.53	2.55	0.239	6.85	.	25	Y	13.83	0	0	0
4/23/2002	WF	LH	1	24.35	2.42	0.239	6.92	0.85	100	Y	13.85	LMB	5	6
4/23/2002	WF	LB	1	24.24	2.36	0.239	6.84	.	50	Y	13.88	SWP	5	2
4/23/2002	WF	C	0	24.80	2.75	0.239	6.92	0.80	0	Y	13.88	0	0	0
4/23/2002	WF	RH	0	24.90	2.89	0.238	6.95	0.70	50	Y	13.90	LMB	5	3
4/23/2002	WF	RB	0	24.85	2.82	0.239	6.94	.	0	Y	13.92	0	0	0
4/23/2002	WF	RH	1	24.44	2.58	0.238	6.81	0.70	100	Y	13.92	SWP	5	1
4/23/2002	WF	RB	1	24.29	2.44	0.239	6.79	.	100	Y	13.93	SWP	5	3
4/23/2002	WF	C	1	24.13	2.29	0.239	6.76	0.80	0	Y	13.95	0	0	0
4/23/2002	GL1	LH	0	25.77	4.32	0.291	6.86	0.37	0	Y	15.33	LMB	5	3
4/23/2002	GL1	LH	0	25.77	4.32	0.291	6.86	0.37	0	Y	15.33	UID	4	1
4/23/2002	GL1	LB	0	24.89	3.58	0.266	6.91	.	10	Y	15.33	CYP	1	1
4/23/2002	GL1	LB	0	24.89	3.58	0.266	6.91	.	10	Y	15.33	CYP	2	6
4/23/2002	GL1	LB	0	24.89	3.58	0.266	6.91	.	10	Y	15.33	CYP	3	1
4/23/2002	GL1	LB	0	24.89	3.58	0.266	6.91	.	10	Y	15.33	MEN	5	1
4/23/2002	GL1	LB	0	24.89	3.58	0.266	6.91	.	10	Y	15.33	PIP	5	2
4/23/2002	GL1	LB	0	24.89	3.58	0.266	6.91	.	10	Y	15.33	PUG	5	4

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
4/23/2002	GL1	LH	1	21.87	3.42	0.232	6.67	0.37	25	Y	15.35	0	0	0
4/23/2002	GL1	LB	1	43.57	6.94	0.463	13.12	.	50	Y	15.37	0	0	0
4/23/2002	GL1	C	0	24.00	2.84	0.241	6.95	0.37	0	N	1.00	0	0	0
4/23/2002	GL1	RH	0	25.66	2.48	0.241	6.84	0.35	1	Y	15.40	DOR	1	1
4/23/2002	GL1	RH	0	25.66	2.48	0.241	6.84	0.35	1	Y	15.40	LEP	1	1
4/23/2002	GL1	RH	0	25.66	2.48	0.241	6.84	0.35	1	Y	15.40	MIC	3	1
4/23/2002	GL1	RB	0	24.83	2.66	0.241	6.90	.	0	Y	15.40	0	0	0
4/23/2002	GL1	RH	1	21.75	3.20	0.233	6.47	0.35	40	Y	15.43	CAP	1	2
4/23/2002	GL1	RH	1	21.75	3.20	0.233	6.47	0.35	40	Y	15.43	CAP	3	1
4/23/2002	GL1	RH	1	21.75	3.20	0.233	6.47	0.35	40	Y	15.43	LEP	1	1
4/23/2002	GL1	RH	1	21.75	3.20	0.233	6.47	0.35	40	Y	15.43	LEP	2	1
4/23/2002	GL1	RB	1	21.73	3.36	0.232	6.46	.	50	Y	15.45	0	0	0
4/23/2002	GL1	C	1	21.70	3.52	0.231	6.45	0.37	0	Y	15.45	0	0	0
4/23/2002	GL2	LH	0	24.40	3.35	0.236	6.91	0.52	0	Y	15.22	CYP	1	2
4/23/2002	GL2	LH	0	24.40	3.35	0.236	6.91	0.52	0	Y	15.22	DOR	1	1
4/23/2002	GL2	LH	0	24.40	3.35	0.236	6.91	0.52	0	Y	15.22	LEP	1	1
4/23/2002	GL2	LH	0	24.40	3.35	0.236	6.91	0.52	0	Y	15.22	LEP	2	1
4/23/2002	GL2	LH	0	24.40	3.35	0.236	6.91	0.52	0	Y	15.22	MEN	2	1
4/23/2002	GL2	LH	0	24.40	3.35	0.236	6.91	0.52	0	Y	15.22	UID	4	1
4/23/2002	GL2	LB	0	24.75	3.45	0.239	6.92	.	0	Y	15.23	0	0	0
4/23/2002	GL2	LH	1	22.36	2.40	0.230	6.61	0.52	0	Y	15.23	CYP	2	1
4/23/2002	GL2	LB	1	22.03	2.55	0.232	6.61	.	0	Y	15.25	LMB	5	1
4/23/2002	GL2	C	0	25.09	3.55	0.242	6.93	0.44	0	Y	15.25	LMB	5	1
4/23/2002	GL2	RH	0	23.49	2.75	0.235	6.85	0.48	25	Y	15.25	LMB	5	6
4/23/2002	GL2	RH	0	23.49	2.75	0.235	6.85	0.48	25	Y	15.25	UID	4	2
4/23/2002	GL2	RB	0	24.29	3.15	0.239	6.89	.	0	Y	15.25	0	0	0
4/23/2002	GL2	RH	1	22.62	2.60	0.233	6.83	0.48	10	Y	15.28	CAP	2	2
4/23/2002	GL2	RH	1	22.62	2.60	0.233	6.83	0.48	10	Y	15.28	CAP	3	13
4/23/2002	GL2	RH	1	22.62	2.60	0.233	6.83	0.48	10	Y	15.28	ETH	3	1
4/23/2002	GL2	RH	1	22.62	2.60	0.233	6.83	0.48	10	Y	15.28	CAP	5	3
4/23/2002	GL2	RB	1	22.16	2.65	0.233	6.72	.	0	Y	15.30	0	0	0
4/23/2002	GL2	C	1	21.70	2.69	0.233	6.60	0.44	0	Y	15.30	CYP	1	1
4/23/2002	GL2	C	1	21.70	2.69	0.233	6.60	0.44	0	Y	15.30	LMB	5	1
5/7/2002	WF	LH	0	28.59	2.17	0.303	6.94	0.34	100	Y	12.97	0	0	0
5/7/2002	WF	LB	0	28.71	2.45	0.303	6.90	.	50	Y	12.97	LMB	5	1
5/7/2002	WF	LB	0	28.71	2.45	0.303	6.90	.	50	Y	12.97	CEN	4	1
5/7/2002	WF	LH	1	28.10	1.56	0.306	6.87	0.34	100	Y	12.98	PER	3	1
5/7/2002	WF	LH	1	28.10	1.56	0.306	6.87	0.34	100	Y	12.98	POM	5	1
5/7/2002	WF	LB	1	28.01	1.64	0.306	6.78	.	50	Y	13.00	0	0	0
5/7/2002	WF	C	0	28.83	2.72	0.302	6.86	1.28	0	Y	13.00	0	0	0
5/7/2002	WF	RH	0	29.21	2.75	0.298	6.92	0.87	100	Y	13.02	0	0	0
5/7/2002	WF	RB	0	29.02	2.74	0.300	6.89	.	50	Y	13.03	MEN	5	1
5/7/2002	WF	RH	1	28.85	1.91	0.299	6.87	0.87	100	Y	13.03	0	0	0
5/7/2002	WF	RB	1	28.38	1.81	0.303	6.78	.	50	Y	13.05	0	0	0
5/7/2002	WF	C	1	27.91	1.71	0.306	6.69	1.28	0	Y	13.05	0	0	0
5/7/2002	LBL	LH	0	28.91	2.56	0.295	7.20	1.15	100	Y	13.08	YEB	5	1
5/7/2002	LBL	LB	0	28.74	2.38	0.297	7.12	.	50	Y	13.10	0	0	0
5/7/2002	LBL	LH	1	28.16	1.81	0.302	7.13	1.15	100	Y	13.10	BLG	5	3
5/7/2002	LBL	LH	1	28.16	1.81	0.302	7.13	1.15	100	Y	13.10	ETH	5	4

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
5/7/2002	LBL	LB	1	28.09	1.60	0.302	7.05	.	50	Y	13.10	LMB	5	1
5/7/2002	LBL	LB	1	28.09	1.60	0.302	7.05	.	50	Y	13.10	MEN	4	2
5/7/2002	LBL	C	0	28.57	2.20	0.299	7.04	1.00	0	Y	13.12	BLG	5	1
5/7/2002	LBL	RH	0	30.39	5.78	0.295	7.72	1.11	100	Y	13.13	LMB	5	2
5/7/2002	LBL	RB	0	29.48	3.99	0.297	7.38	.	0	N	1.00	0	0	0
5/7/2002	LBL	RH	1	28.22	1.74	0.299	7.34	1.11	100	Y	13.13	ETH	5	1
5/7/2002	LBL	RH	1	28.22	1.74	0.299	7.34	1.11	100	Y	13.13	POM	5	1
5/7/2002	LBL	RB	1	28.12	1.56	0.301	7.16	.	0	N	1.00	0	0	0
5/7/2002	LBL	C	1	28.01	1.38	0.302	6.97	1.00	0	Y	13.15	PUG	5	1
5/7/2002	GL1	LH	0	28.95	7.11	0.327	6.83	0.32	100	Y	13.55	CRS	3	2
5/7/2002	GL1	LH	0	28.95	7.11	0.327	6.83	0.32	100	Y	13.55	CRS	5	1
5/7/2002	GL1	LH	0	28.95	7.11	0.327	6.83	0.32	100	Y	13.55	GAM	5	2
5/7/2002	GL1	LH	0	28.95	7.11	0.327	6.83	0.32	100	Y	13.55	PIP	5	2
5/7/2002	GL1	LB	0	28.50	6.79	0.327	6.84	.	0	Y	12.53	MEN	5	11
5/7/2002	GL1	LH	1	27.83	4.35	0.326	6.75	0.32	100	Y	12.57	DOR	2	1
5/7/2002	GL1	LH	1	27.83	4.35	0.326	6.75	0.32	100	Y	12.57	LEP	1	1
5/7/2002	GL1	LH	1	27.83	4.35	0.326	6.75	0.32	100	Y	12.57	CYP	5	5
5/7/2002	GL1	LH	1	27.83	4.35	0.326	6.75	0.32	100	Y	12.57	PIP	5	5
5/7/2002	GL1	LH	1	27.83	4.35	0.326	6.75	0.32	100	Y	12.57	LEP	4	1
5/7/2002	GL1	LB	1	26.55	4.69	0.327	6.76	.	0	Y	12.57	0	0	0
5/7/2002	GL1	C	0	28.05	6.46	0.327	6.84	0.40	0	Y	12.58	0	0	0
5/7/2002	GL1	RH	0	28.10	4.22	0.325	6.82	0.45	15	Y	12.57	DOR	3	1
5/7/2002	GL1	RH	0	28.10	4.22	0.325	6.82	0.45	15	Y	12.57	LMB	5	1
5/7/2002	GL1	RH	0	28.10	4.22	0.325	6.82	0.45	15	Y	12.57	SWP	5	1
5/7/2002	GL1	RB	0	28.08	5.34	0.326	6.83	.	0	Y	12.58	MEN	5	1
5/7/2002	GL1	RH	1	27.56	3.50	0.325	6.79	0.45	50	Y	12.58	0	0	0
5/7/2002	GL1	RB	1	26.42	4.27	0.327	6.78	.	0	Y	12.62	0	0	0
5/7/2002	GL1	C	1	25.27	5.03	0.328	6.76	0.40	0	Y	12.63	0	0	0
5/7/2002	GL2	LH	0	28.30	2.64	0.320	6.81	0.77	65	Y	13.17	0	0	0
5/7/2002	GL2	LB	0	28.70	2.72	0.320	6.86	.	0	Y	13.17	LEP	1	1
5/7/2002	GL2	LH	1	25.96	2.93	0.329	6.76	0.77	0	Y	13.13	MIC	3	1
5/7/2002	GL2	LB	1	25.63	3.51	0.329	6.84	.	0	Y	13.15	0	0	0
5/7/2002	GL2	C	0	29.09	2.80	0.319	6.91	0.78	0	Y	13.15	LEP	1	1
5/7/2002	GL2	C	0	29.09	2.80	0.319	6.91	0.78	0	Y	13.15	MEN	5	1
5/7/2002	GL2	C	0	29.09	2.80	0.319	6.91	0.78	0	Y	13.15	PUG	5	1
5/7/2002	GL2	RH	0	28.63	2.20	0.318	6.90	1.44	10	N	13.13	0	0	0
5/7/2002	GL2	RB	0	28.86	2.50	0.319	6.91	.	0	Y	13.13	LEP	1	1
5/7/2002	GL2	RH	0.5	28.18	1.45	0.320	6.80	1.44	0	Y	13.15	0	0	0
5/7/2002	GL2	RB	1	26.74	2.77	0.324	6.86	.	0	Y	13.17	PUG	5	4
5/7/2002	GL2	C	1	25.29	4.09	0.328	6.91	0.78	0	Y	13.17	0	0	0
5/21/2002	WF	LH	0	22.86	3.74	0.312	6.78	1.29	100	Y	14.35	GAM	5	3
5/21/2002	WF	LB	0	22.78	3.71	0.312	6.77	.	50	Y	14.37	BLG	5	1
5/21/2002	WF	LB	0	22.78	3.71	0.312	6.77	.	50	Y	14.37	GAM	5	2
5/21/2002	WF	LB	0	22.78	3.71	0.312	6.77	.	50	Y	14.37	LMB	5	1
5/21/2002	WF	LB	0	22.78	3.71	0.312	6.77	.	50	Y	14.37	MEN	5	1
5/21/2002	WF	LH	1	22.50	3.58	0.312	6.74	1.29	100	Y	14.38	0	0	0
5/21/2002	WF	LB	1	22.45	3.52	0.313	6.68	.	50	Y	14.38	PIP	5	1
5/21/2002	WF	LB	1	22.45	3.52	0.313	6.68	.	50	Y	14.38	SWP	5	1
5/21/2002	WF	C	0	22.70	3.67	0.312	6.76	1.47	0	Y	14.40	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
5/21/2002	WF	RH	0	23.06	3.52	0.313	6.80	1.31	100	Y	14.40	LMB	5	1
5/21/2002	WF	RB	0	22.88	3.60	0.313	6.78	.	50	Y	14.40	LMB	5	1
5/21/2002	WF	RB	0	22.88	3.60	0.313	6.78	.	50	Y	14.40	UID	4	1
5/21/2002	WF	RH	1	22.57	3.39	0.314	6.73	1.31	100	Y	14.40	0	0	0
5/21/2002	WF	RB	1	22.48	3.42	0.314	6.68	.	50	Y	14.40	0	0	0
5/21/2002	WF	C	1	22.39	3.45	0.313	6.62	1.47	0	Y	14.42	0	0	0
5/21/2002	LBL	LH	0	22.58	3.46	0.313	6.50	1.06	100	Y	13.80	CRS	3	1
5/21/2002	LBL	LH	0	22.58	3.46	0.313	6.50	1.06	100	Y	13.80	CRS	5	1
5/21/2002	LBL	LH	0	22.58	3.46	0.313	6.50	1.06	100	Y	13.80	GAM	5	1
5/21/2002	LBL	LB	0	22.60	3.51	0.313	6.50	.	50	Y	13.82	GAM	5	1
5/21/2002	LBL	LB	0	22.60	3.51	0.313	6.50	.	50	Y	13.82	LMB	5	1
5/21/2002	LBL	LB	0	22.60	3.51	0.313	6.50	.	50	Y	13.82	MEN	5	1
5/21/2002	LBL	LH	1	22.53	3.40	0.313	6.39	1.06	100	Y	13.82	MEN	5	4
5/21/2002	LBL	LB	1	22.46	3.35	0.313	6.34	.	50	Y	13.83	MEN	5	5
5/21/2002	LBL	C	0	22.61	3.55	0.312	6.50	1.37	0	Y	13.85	GAM	5	1
5/21/2002	LBL	RH	0	22.72	3.69	0.314	6.77	0.99	100	Y	13.87	BLG	5	2
5/21/2002	LBL	RH	0	22.72	3.69	0.314	6.77	0.99	100	Y	13.87	GAM	5	2
5/21/2002	LBL	RB	0	22.67	3.62	0.313	6.64	.	0	N	1.00	0	0	0
5/21/2002	LBL	RH	1	22.50	3.49	0.312	6.68	0.99	100	Y	13.85	BLG	5	1
5/21/2002	LBL	RB	1	22.44	3.40	0.313	6.49	.	50	Y	13.87	PUG	5	1
5/21/2002	LBL	C	1	22.38	3.30	0.313	6.29	1.37	0	Y	13.88	0	0	0
5/21/2002	GL1	LH	0	21.75	4.96	0.304	6.89	0.28	100	Y	15.37	LEP	1	1
5/21/2002	GL1	LH	0	21.75	4.96	0.304	6.89	0.28	100	Y	15.37	MIC	2	1
5/21/2002	GL1	LB	0	22.55	5.52	0.305	6.93	.	0	Y	15.37	MEN	5	1
5/21/2002	GL1	LH	1	23.13	5.71	0.306	6.96	0.28	100	Y	15.37	0	0	0
5/21/2002	GL1	LB	1	22.34	5.16	0.305	6.89	.	0	Y	15.37	0	0	0
5/21/2002	GL1	C	0	23.34	6.07	0.306	6.96	0.34	0	Y	15.37	MEN	5	2
5/21/2002	GL1	RH	0	23.62	5.96	0.305	6.90	0.36	80	Y	15.38	0	0	0
5/21/2002	GL1	RB	0	23.48	6.02	0.306	6.93	.	0	Y	15.38	MEN	5	7
5/21/2002	GL1	RH	1	21.50	2.87	0.302	6.80	0.36	100	Y	15.43	CAP	2	2
5/21/2002	GL1	RH	1	21.50	2.87	0.302	6.80	0.36	100	Y	15.43	POM	3	1
5/21/2002	GL1	RB	1	21.53	3.74	0.303	6.81	.	0	Y	15.43	PUG	5	1
5/21/2002	GL1	C	1	21.55	4.60	0.304	6.82	0.34	0	Y	15.42	0	0	0
5/21/2002	GL2	LH	0	22.10	2.66	0.299	6.78	0.92	0	Y	15.87	GAM	5	26
5/21/2002	GL2	LB	0	22.19	2.80	0.299	6.81	.	0	Y	15.88	GAM	5	2
5/21/2002	GL2	LH	1	21.29	1.98	0.298	6.77	0.92	0	Y	15.90	0	0	0
5/21/2002	GL2	LB	1	21.10	1.75	0.298	6.73	.	0	Y	15.90	0	0	0
5/21/2002	GL2	C	0	22.28	2.93	0.299	6.83	1.07	0	Y	15.92	0	0	0
5/21/2002	GL2	RH	0	22.07	2.47	0.298	6.77	1.32	0	Y	15.93	GAM	5	3
5/21/2002	GL2	RB	0	22.18	2.70	0.299	6.80	.	0	Y	15.93	GAM	5	1
5/21/2002	GL2	RH	1	21.91	2.42	0.300	6.78	1.32	0	Y	15.93	0	0	0
5/21/2002	GL2	RB	1	21.41	1.97	0.299	6.73	.	0	Y	15.93	0	0	0
5/21/2002	GL2	C	1	20.90	1.51	0.298	6.68	1.07	0	Y	15.93	0	0	0
6/4/2002	LBL	LH	0	25.87	1.99	0.314	6.56	1.07	100	Y	13.08	MEN	5	10
6/4/2002	LBL	LB	0	26.16	2.09	0.315	6.58	.	50	Y	13.07	CRS	5	1
6/4/2002	LBL	LB	0	26.16	2.09	0.315	6.58	.	50	Y	13.07	LMB	5	2
6/4/2002	LBL	LB	0	26.16	2.09	0.315	6.58	.	50	Y	13.07	MEN	5	5
6/4/2002	LBL	LH	1	25.83	1.88	0.314	6.51	1.07	100	Y	13.08	MEN	5	13
6/4/2002	LBL	LB	1	25.76	1.97	0.315	6.47	.	50	Y	13.12	MEN	5	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
6/4/2002	LBL	C	0	26.45	2.19	0.315	6.59	1.70	0	N	1.00	0	0	0
6/4/2002	LBL	RH	0	29.01	4.13	0.305	6.98	1.00	100	Y	13.13	BLG	5	1
6/4/2002	LBL	RH	0	29.01	4.13	0.305	6.98	1.00	100	Y	13.13	GAM	5	1
6/4/2002	LBL	RH	0	29.01	4.13	0.305	6.98	1.00	100	Y	13.13	LMB	5	1
6/4/2002	LBL	RB	0	27.73	3.16	0.310	6.79	.	50	Y	13.08	MIC	3	1
6/4/2002	LBL	RB	0	27.73	3.16	0.310	6.79	.	50	Y	13.08	BLG	5	1
6/4/2002	LBL	RB	0	27.73	3.16	0.310	6.79	.	50	Y	13.08	LMB	5	3
6/4/2002	LBL	RB	0	27.73	3.16	0.310	6.79	.	50	Y	13.08	MEN	5	2
6/4/2002	LBL	RH	1	25.61	2.05	0.315	6.56	1.00	100	Y	13.13	MEN	5	3
6/4/2002	LBL	RB	1	25.65	2.06	0.315	6.50	.	50	Y	13.15	0	0	0
6/4/2002	LBL	C	1	25.68	2.06	0.315	6.43	1.70	0	Y	13.17	0	0	0
6/4/2002	WF	LH	0	26.87	2.41	0.312	6.72	1.30	100	Y	13.57	CRS	5	1
6/4/2002	WF	LH	0	26.87	2.41	0.312	6.72	1.30	100	Y	13.57	GAM	5	1
6/4/2002	WF	LH	0	26.87	2.41	0.312	6.72	1.30	100	Y	13.57	LEK	5	1
6/4/2002	WF	LB	0	26.55	2.38	0.313	6.72	.	50	Y	13.63	GAM	5	2
6/4/2002	WF	LB	0	26.55	2.38	0.313	6.72	.	50	Y	13.63	MEN	5	6
6/4/2002	WF	LB	0	26.55	2.38	0.313	6.72	.	50	Y	13.63	WAM	5	2
6/4/2002	WF	LH	1	25.94	2.16	0.313	6.66	1.30	100	Y	13.67	LMB	5	1
6/4/2002	WF	LH	1	25.94	2.16	0.313	6.66	1.30	100	Y	13.67	MEN	5	4
6/4/2002	WF	LB	1	25.86	2.06	0.313	6.67	.	50	Y	13.67	MEN	5	1
6/4/2002	WF	C	0	26.23	2.35	0.314	6.72	1.40	0	Y	13.68	MEN	5	2
6/4/2002	WF	RH	0	26.78	2.79	0.314	6.82	1.40	100	Y	13.68	MIC	3	1
6/4/2002	WF	RH	0	26.78	2.79	0.314	6.82	1.40	100	Y	13.68	GAM	5	1
6/4/2002	WF	RH	0	26.78	2.79	0.314	6.82	1.40	100	Y	13.68	WAM	5	1
6/4/2002	WF	RB	0	26.51	2.57	0.314	6.77	.	60	Y	13.70	MEN	5	13
6/4/2002	WF	RH	1	26.17	2.18	0.315	6.76	1.40	100	Y	13.72	MIC	1	1
6/4/2002	WF	RH	1	26.17	2.18	0.315	6.76	1.40	100	Y	13.72	MEN	5	3
6/4/2002	WF	RB	1	25.98	2.07	0.314	6.72	.	50	Y	13.73	MEN	5	2
6/4/2002	WF	C	1	25.78	1.96	0.313	6.67	1.40	0	Y	13.73	SWP	5	1
6/4/2002	GL1	LH	0	28.32	4.57	0.299	6.93	0.80	100	Y	15.23	LEP	1	5
6/4/2002	GL1	LH	0	28.32	4.57	0.299	6.93	0.80	100	Y	15.23	GAM	5	1
6/4/2002	GL1	LH	0	28.32	4.57	0.299	6.93	0.80	100	Y	15.23	MEN	5	2
6/4/2002	GL1	LH	0	28.32	4.57	0.299	6.93	0.80	100	Y	15.23	MEN	4	1
6/4/2002	GL1	LB	0	27.73	4.34	0.300	6.89	.	50	Y	15.23	0	0	0
6/4/2002	GL1	LH	1	24.00	3.23	0.303	6.90	0.80	100	Y	15.25	LEP	1	1
6/4/2002	GL1	LH	1	24.00	3.23	0.303	6.90	0.80	100	Y	15.25	LEP	2	1
6/4/2002	GL1	LH	1	24.00	3.23	0.303	6.90	0.80	100	Y	15.25	WAM	5	1
6/4/2002	GL1	LB	1	23.89	2.91	0.301	6.87	.	50	Y	15.25	MOR	2	2
6/4/2002	GL1	LB	1	23.89	2.91	0.301	6.87	.	50	Y	15.25	CAP	5	11
6/4/2002	GL1	C	0	27.14	4.10	0.301	6.85	0.70	0	N	15.32	0	0	0
6/4/2002	GL1	RH	0	26.19	5.27	0.299	6.98	0.70	100	Y	15.30	BLG	5	2
6/4/2002	GL1	RB	0	26.67	4.69	0.300	6.92	.	50	Y	15.32	LEP	1	2
6/4/2002	GL1	RB	0	26.67	4.69	0.300	6.92	.	50	Y	15.32	LMB	3	2
6/4/2002	GL1	RB	0	26.67	4.69	0.300	6.92	.	50	Y	15.32	GAM	5	2
6/4/2002	GL1	RB	0	26.67	4.69	0.300	6.92	.	50	Y	15.32	LMB	5	4
6/4/2002	GL1	RB	0	26.67	4.69	0.300	6.92	.	50	Y	15.32	UID	4	2
6/4/2002	GL1	RH	1	24.33	3.66	0.301	6.88	0.70	75	Y	15.33	CAP	5	1
6/4/2002	GL1	RH	1	24.33	3.66	0.301	6.88	0.70	75	Y	15.33	PIP	5	1
6/4/2002	GL1	RB	0.5	24.06	3.13	0.300	6.86	.	50	Y	15.33	BLG	5	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
6/4/2002	GL1	C	1	23.78	2.59	0.299	6.83	0.70	0	Y	15.35	MEN	5	1
6/4/2002	GL2	LH	0	27.14	4.79	0.299	6.85	0.50	75	Y	14.58	MEN	5	1
6/4/2002	GL2	LB	0	28.04	5.24	0.300	6.91	.	25	Y	14.60	GAM	5	1
6/4/2002	GL2	LB	0	28.04	5.24	0.300	6.91	.	25	Y	14.60	MEN	5	1
6/4/2002	GL2	LH	1	24.29	2.32	0.298	6.77	0.50	50	Y	14.65	PUG	5	1
6/4/2002	GL2	LB	1	24.11	2.17	0.298	6.76	.	50	Y	14.57	PUG	5	3
6/4/2002	GL2	C	0	28.93	5.69	0.300	6.97	0.40	0	Y	14.65	MEN	5	2
6/4/2002	GL2	RH	0	27.37	4.69	0.298	6.93	0.40	10	Y	14.65	MEN	5	1
6/4/2002	GL2	RB	0	28.15	5.19	0.299	6.95	.	10	Y	14.65	0	0	0
6/4/2002	GL2	RH	1	24.16	2.11	0.297	6.79	0.40	20	Y	14.67	0	0	0
6/4/2002	GL2	RB	1	24.05	2.07	0.298	6.77	.	30	Y	14.72	LEP	3	1
6/4/2002	GL2	C	1	23.93	2.02	0.298	6.75	0.40	0	Y	14.67	0	0	0
6/18/2002	LBL	LH	0	27.68	3.08	0.323	6.81	0.95	100	Y	13.12	0	0	0
6/18/2002	LBL	LB	0	27.72	3.13	0.322	6.94	0.90	60	Y	13.15	MEN	5	1
6/18/2002	LBL	LH	1	27.64	3.03	0.322	6.76	0.95	100	Y	13.17	MEN	5	7
6/18/2002	LBL	LB	1	27.68	3.11	0.322	6.87	0.90	60	Y	13.20	0	0	0
6/18/2002	LBL	C	0	27.74	3.11	0.322	6.94	1.00	0	Y	13.02	0	0	0
6/18/2002	LBL	RH	0	28.48	4.84	0.318	7.13	1.50	100	Y	13.25	BLG	5	2
6/18/2002	LBL	RH	0	28.48	4.84	0.318	7.13	1.50	100	Y	13.25	WAM	5	1
6/18/2002	LBL	RB	0	27.58	3.39	0.322	7.03	0.85	0	N	1.00	0	0	0
6/18/2002	LBL	RH	1	27.54	3.15	0.321	7.01	1.50	100	Y	13.30	LEP	5	1
6/18/2002	LBL	RB	1	27.54	3.11	0.322	6.93	0.85	50	Y	13.32	MEN	5	1
6/18/2002	LBL	C	1	27.60	2.85	0.322	6.79	1.00	0	Y	13.20	0	0	0
6/18/2002	WF	LH	0	27.68	3.20	0.322	7.06	0.95	100	Y	13.82	GAM	5	1
6/18/2002	WF	LH	0	27.68	3.20	0.322	7.06	0.95	100	Y	13.82	MEN	5	4
6/18/2002	WF	LH	0	27.68	3.20	0.322	7.06	0.95	100	Y	13.82	WAM	5	1
6/18/2002	WF	LB	0	27.66	3.08	0.322	7.07	0.90	50	Y	13.82	MEN	5	4
6/18/2002	WF	LH	1	27.64	3.18	0.321	7.04	0.95	100	Y	13.83	0	0	0
6/18/2002	WF	LB	1	27.62	3.06	0.320	7.04	0.90	50	Y	13.85	0	0	0
6/18/2002	WF	C	0	27.74	3.02	0.322	7.05	0.90	0	Y	13.90	0	0	0
6/18/2002	WF	RH	0	28.03	4.87	0.322	7.16	0.75	100	Y	13.90	0	0	0
6/18/2002	WF	RB	0	28.07	3.97	0.321	7.16	0.80	50	Y	13.90	0	0	0
6/18/2002	WF	RH	1	27.83	3.51	0.317	7.07	0.75	100	Y	13.90	0	0	0
6/18/2002	WF	RB	1	27.89	3.57	0.322	7.09	0.80	50	Y	13.93	LEP	5	1
6/18/2002	WF	C	1	27.58	2.95	0.321	6.97	0.90	0	Y	13.58	0	0	0
6/18/2002	GL1	LH	0	27.77	6.87	0.325	7.37	0.65	100	Y	15.68	0	0	0
6/18/2002	GL1	LB	0	28.19	7.54	0.322	7.45	.	30	Y	15.70	CRS	5	1
6/18/2002	GL1	LH	1	26.50	3.12	0.323	7.13	0.65	100	Y	15.72	CAP	3	2
6/18/2002	GL1	LH	1	26.50	3.12	0.323	7.13	0.65	100	Y	15.72	LEP	1	1
6/18/2002	GL1	LH	1	26.50	3.12	0.323	7.13	0.65	100	Y	15.72	PIP	5	6
6/18/2002	GL1	LB	1	26.51	2.51	0.319	7.09	.	50	Y	15.72	CYP	1	1
6/18/2002	GL1	LB	1	26.51	2.51	0.319	7.09	.	50	Y	15.72	CYP	2	2
6/18/2002	GL1	LB	1	26.51	2.51	0.319	7.09	.	50	Y	15.72	LEP	1	3
6/18/2002	GL1	LB	1	26.51	2.51	0.319	7.09	.	50	Y	15.72	MOR	2	1
6/18/2002	GL1	LB	1	26.51	2.51	0.319	7.09	.	50	Y	15.72	UID	4	1
6/18/2002	GL1	C	0	28.61	8.21	0.319	7.53	0.55	0	Y	15.70	MEN	5	1
6/18/2002	GL1	C	0	28.61	8.21	0.319	7.53	0.55	0	Y	15.70	0	0	0
6/18/2002	GL1	RH	0	28.67	9.37	0.315	7.47	0.60	100	Y	15.68	DOR	3	1
6/18/2002	GL1	RH	0	28.67	9.37	0.315	7.47	0.60	100	Y	15.68	MOR	2	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
6/18/2002	GL1	RH	0	28.67	9.37	0.315	7.47	0.60	100	Y	15.68	BLG	5	2
6/18/2002	GL1	RB	0	28.64	8.79	0.317	7.50	.	50	Y	15.70	0	0	0
6/18/2002	GL1	RH	1	26.51	1.90	0.315	7.04	0.60	100	Y	15.70	CAP	1	1
6/18/2002	GL1	RH	1	26.51	1.90	0.315	7.04	0.60	100	Y	15.70	CAP	3	1
6/18/2002	GL1	RH	1	26.51	1.90	0.315	7.04	0.60	100	Y	15.70	CYP	1	1
6/18/2002	GL1	RH	1	26.51	1.90	0.315	7.04	0.60	100	Y	15.70	DOR	1	1
6/18/2002	GL1	RH	1	26.51	1.90	0.315	7.04	0.60	100	Y	15.70	DOR	3	2
6/18/2002	GL1	RB	1	26.53	2.63	0.320	7.08	.	50	Y	15.70	DOR	2	6
6/18/2002	GL1	RB	1	26.53	2.63	0.320	7.08	.	50	Y	15.70	DOR	3	2
6/18/2002	GL1	RB	1	26.53	2.63	0.320	7.08	.	50	Y	15.70	LEP	1	1
6/18/2002	GL1	RB	1	26.53	2.63	0.320	7.08	.	50	Y	15.70	DOR	4	1
6/18/2002	GL1	C	1	26.55	3.36	0.324	7.11	0.55	0	Y	15.70	DOR	5	1
6/18/2002	GL2	LH	0	27.01	1.26	0.304	6.97	1.15	100	Y	14.92	BLG	5	1
6/18/2002	GL2	LH	0	27.01	1.26	0.304	6.97	1.15	100	Y	14.92	MEN	5	1
6/18/2002	GL2	LB	0	27.46	1.49	0.305	6.97	.	50	Y	14.93	CYP	1	1
6/18/2002	GL2	LB	0	27.46	1.49	0.305	6.97	.	50	Y	14.93	LEP	1	1
6/18/2002	GL2	LB	0	27.46	1.49	0.305	6.97	.	50	Y	14.93	LMB	5	1
6/18/2002	GL2	LH	1	26.72	0.95	0.305	6.97	1.15	100	Y	14.95	0	0	0
6/18/2002	GL2	LB	1	27.10	1.02	0.306	6.94	.	50	Y	14.95	0	0	0
6/18/2002	GL2	C	0	27.91	1.72	0.305	6.97	1.30	0	Y	14.97	0	0	0
6/18/2002	GL2	RH	0	27.70	1.63	0.304	6.98	1.00	50	N	1.00	SWP	5	1
6/18/2002	GL2	RB	0	27.81	1.68	0.305	6.98	.	50	Y	14.98	0	0	0
6/18/2002	GL2	RH	1	26.97	1.15	0.304	6.94	1.00	50	Y	15.05	0	0	0
6/18/2002	GL2	RB	1	27.22	1.12	0.305	6.92	.	0	Y	15.07	0	0	0
6/18/2002	GL2	C	1	27.47	1.08	0.306	6.90	1.30	0	Y	15.08	0	0	0
6/24/2002	GL1	C	0	28.34	9.76	0.346	7.61	.	0	Y	.	.	.	.
6/24/2002	GL1	C	1	26.57	4.12	0.345	7.17	.	0	Y	.	.	.	.
6/24/2002	GL2	C	0	27.74	3.35	0.312	6.95	.	0	Y	.	.	.	.
6/24/2002	GL2	C	1	25.79	0.33	0.314	6.76	.	0	Y	.	.	.	.
6/24/2002	LBL	C	0	26.93	2.90	0.313	7.22	.	0	Y	.	.	.	.
6/24/2002	LBL	C	1	26.84	2.90	0.314	7.18	.	0	Y	.	.	.	.
6/24/2002	WF	C	0	26.97	3.09	0.313	4.14	.	0	Y	.	.	.	.
6/24/2002	WF	C	1	26.95	3.03	0.313	7.16	.	0	Y	.	.	.	.
7/8/2002	WF	LH	0	28.71	2.83	0.323	7.01	0.25	100	N	13.48	0	0	0
7/8/2002	WF	LB	0	28.69	2.71	0.323	7.00	0.25	50	Y	13.53	MEN	5	9
7/8/2002	WF	LB	0	28.69	2.71	0.323	7.00	0.25	50	Y	13.53	PIP	5	2
7/8/2002	WF	LH	0.75	28.71	2.83	0.318	7.01	0.25	100	Y	13.55	LEP	1	2
7/8/2002	WF	LH	0.75	28.71	2.83	0.318	7.01	0.25	100	Y	13.55	PIP	5	1
7/8/2002	WF	LH	0.75	28.71	2.83	0.318	7.01	0.25	100	Y	13.55	UID	4	1
7/8/2002	WF	LB	1	28.71	2.71	0.323	7.00	0.25	50	Y	13.57	PIP	5	1
7/8/2002	WF	C	0	28.63	2.84	0.323	7.02	0.50	0	Y	13.58	0	0	0
7/8/2002	WF	RH	0	29.32	2.35	0.322	6.99	0.50	100	Y	13.62	CRS	5	1
7/8/2002	WF	RH	0	29.32	2.35	0.322	6.99	0.50	100	Y	13.62	GAM	5	1
7/8/2002	WF	RB	0	29.23	2.43	0.321	7.01	0.50	50	Y	13.63	0	0	0
7/8/2002	WF	RH	1	29.29	2.07	0.322	6.97	0.50	100	Y	13.63	0	0	0
7/8/2002	WF	RB	1	28.79	2.64	0.323	7.01	0.50	50	Y	13.65	PIP	5	1
7/8/2002	WF	RB	1	28.79	2.64	0.323	7.01	0.50	50	Y	13.65	POM	5	1
7/8/2002	WF	RB	1	28.79	2.64	0.323	7.01	0.50	50	Y	13.65	WAM	5	1
7/8/2002	WF	C	1	28.65	2.76	0.323	7.00	0.50	0	Y	13.67	0	0	0

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/8/2002	LBL	LH	0	29.17	4.96	0.315	7.19	0.45	100	Y	12.83	LEP	1	1
7/8/2002	LBL	LH	0	29.17	4.96	0.315	7.19	0.45	100	Y	12.83	MEN	5	1
7/8/2002	LBL	LH	0	29.17	4.96	0.315	7.19	0.45	100	Y	12.83	SPS	5	1
7/8/2002	LBL	LB	0	28.87	2.87	0.321	7.03	0.35	50	Y	12.85	MEN	5	2
7/8/2002	LBL	LH	1	28.97	2.92	0.321	7.04	0.45	100	Y	12.85	0	0	0
7/8/2002	LBL	LB	1	28.85	2.65	0.321	7.02	0.35	50	Y	12.87	UID	4	1
7/8/2002	LBL	C	0	28.79	2.76	0.321	7.04	0.55	0	Y	12.90	MEN	5	1
7/8/2002	LBL	RH	0	29.03	2.67	0.320	7.01	0.25	100	Y	12.92	MEN	5	6
7/8/2002	LBL	RH	0	29.03	2.67	0.320	7.01	0.25	100	Y	12.92	SWP	5	1
7/8/2002	LBL	RB	0	28.88	2.71	0.321	7.01	0.50	0	N	1.00	0	0	0
7/8/2002	LBL	RH	1	28.93	2.38	0.320	7.00	0.25	100	Y	12.97	LEP	3	1
7/8/2002	LBL	RB	1	28.88	2.66	0.321	7.02	0.50	50	Y	12.98	PIP	5	7
7/8/2002	LBL	RB	1	28.88	2.66	0.321	7.02	0.50	50	Y	12.98	UID	4	1
7/8/2002	LBL	C	1	28.75	2.74	0.322	7.00	0.55	0	Y	12.98	0	0	0
7/8/2002	GL1	LH	0	31.27	6.88	0.333	7.41	0.30	100	Y	15.28	BLG	5	1
7/8/2002	GL1	LH	0	31.27	6.88	0.333	7.41	0.30	100	Y	15.28	PIP	5	1
7/8/2002	GL1	LH	0	31.27	6.88	0.333	7.41	0.30	100	Y	15.28	WAM	5	1
7/8/2002	GL1	LB	0	30.97	7.73	0.333	7.50	.	0	Y	15.28	PIP	5	2
7/8/2002	GL1	LH	1	31.21	7.40	0.333	7.42	0.30	100	Y	15.25	CRS	2	1
7/8/2002	GL1	LH	1	31.21	7.40	0.333	7.42	0.30	100	Y	15.25	PIP	5	3
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	CYP	1	1
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	DOR	1	1
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	DOR	2	4
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	DOR	3	1
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	LEP	1	4
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	LEP	3	1
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	MOR	3	2
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	LEP	5	1
7/8/2002	GL1	LB	1	30.37	5.84	0.334	7.31	.	50	Y	15.27	DOR	4	4
7/8/2002	GL1	C	0	30.67	8.58	0.332	7.58	0.45	0	Y	15.27	MEN	5	6
7/8/2002	GL1	RH	0	30.69	6.65	0.332	7.58	0.40	100	Y	15.35	DOR	2	2
7/8/2002	GL1	RH	0	30.69	6.65	0.332	7.58	0.40	100	Y	15.35	LEP	1	25
7/8/2002	GL1	RH	0	30.69	6.65	0.332	7.58	0.40	100	Y	15.35	DOR	4	1
7/8/2002	GL1	RH	0	30.69	6.65	0.332	7.58	0.40	100	Y	15.35	LEP	4	7
7/8/2002	GL1	RB	0	30.68	7.62	0.332	7.58	.	50	Y	15.30	0	0	0
7/8/2002	GL1	RH	0.5	30.67	6.31	0.332	7.35	0.40	100	Y	15.42	LEP	1	1
7/8/2002	GL1	RH	0.5	30.67	6.31	0.332	7.35	0.40	100	Y	15.42	WAM	5	1
7/8/2002	GL1	RB	0.5	30.10	5.30	0.334	7.27	.	50	Y	15.35	0	0	0
7/8/2002	GL1	C	1	29.52	4.28	0.335	7.19	0.45	0	Y	15.38	0	0	0
7/8/2002	GL2	LH	0	31.19	9.16	0.329	7.57	0.35	50	Y	16.20	LMB	5	1
7/8/2002	GL2	LB	0	31.14	9.57	0.330	7.65	.	0	Y	16.20	DOR	1	1
7/8/2002	GL2	LB	0	31.14	9.57	0.330	7.65	.	0	Y	16.20	LEP	1	1
7/8/2002	GL2	LB	0	31.14	9.57	0.330	7.65	.	0	Y	16.20	BLG	5	1
7/8/2002	GL2	LH	0.5	30.98	8.31	0.326	7.43	0.35	0	Y	16.20	0	0	0
7/8/2002	GL2	LB	1	29.62	5.32	0.304	7.09	.	0	Y	16.20	BLG	5	1
7/8/2002	GL2	C	0	31.08	9.97	0.330	7.72	0.45	0	Y	16.23	MEN	5	4
7/8/2002	GL2	RH	0	31.15	10.16	0.330	7.65	0.45	0	Y	16.25	BLG	5	1
7/8/2002	GL2	RH	0	31.15	10.16	0.330	7.65	0.45	0	Y	16.25	MEN	5	3
7/8/2002	GL2	RH	0	31.15	10.16	0.330	7.65	0.45	0	Y	16.25	WAM	5	1

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/8/2002	GL2	RB	0	31.12	10.07	0.330	7.69	.	15	Y	16.25	LEP	2	1
7/8/2002	GL2	RB	0	31.12	10.07	0.330	7.69	.	15	Y	16.25	LEP	3	1
7/8/2002	GL2	RB	0	31.12	10.07	0.330	7.69	.	15	Y	16.25	GAM	5	2
7/8/2002	GL2	RH	1	31.25	10.41	0.330	7.72	0.45	25	Y	16.27	PUG	5	1
7/8/2002	GL2	RH	1	31.25	10.41	0.330	7.72	0.45	25	Y	16.27	WAM	5	2
7/8/2002	GL2	RB	1	29.76	6.37	0.306	7.24	.	15	Y	16.28	PIP	5	1
7/8/2002	GL2	RB	1	29.76	6.37	0.306	7.24	.	15	Y	16.28	WAM	5	1
7/8/2002	GL2	C	1	28.26	2.33	0.281	6.75	0.45	0	Y	16.28	0	0	0
7/22/2002	WF	LH	0	34.73	9.69	0.317	8.44	.	100	Y	12.30	LEP	1	1
7/22/2002	WF	LH	0	34.73	9.69	0.317	8.44	.	100	Y	12.30	MOR	3	1
7/22/2002	WF	LH	0	34.73	9.69	0.317	8.44	.	100	Y	12.30	BLG	5	1
7/22/2002	WF	LH	0	34.73	9.69	0.317	8.44	.	100	Y	12.30	DOL	5	2
7/22/2002	WF	LH	0	34.73	9.69	0.317	8.44	.	100	Y	12.30	LMB	5	1
7/22/2002	WF	LB	0	33.83	6.77	0.335	7.70	.	50	Y	12.30	BLG	5	1
7/22/2002	WF	LB	0	33.83	6.77	0.335	7.70	.	50	Y	12.30	MEN	5	1
7/22/2002	WF	LB	0	33.83	6.77	0.335	7.70	.	50	Y	12.30	WAM	5	1
7/22/2002	WF	LH	1	34.44	6.61	0.333	7.80	.	100	Y	12.33	PUG	5	3
7/22/2002	WF	LB	1	33.59	4.81	0.338	7.55	.	50	Y	12.33	LEP	5	1
7/22/2002	WF	LB	1	33.59	4.81	0.338	7.55	.	50	Y	12.33	SWP	5	3
7/22/2002	WF	C	0	33.83	7.80	0.336	7.86	.	0	N	1.00	0	0	0
7/22/2002	WF	RH	0	33.53	7.06	0.333	7.72	.	100	N	1.00	0	0	0
7/22/2002	WF	RB	0	33.44	8.20	0.333	7.88	.	50	Y	12.38	LMB	5	1
7/22/2002	WF	RB	0	33.44	8.20	0.333	7.88	.	50	Y	12.38	POM	5	1
7/22/2002	WF	RH	0.5	33.53	6.14	0.336	7.61	.	100	Y	12.40	PUG	5	2
7/22/2002	WF	RB	1	32.44	2.14	0.339	7.33	.	50	Y	12.42	PUG	5	2
7/22/2002	WF	C	1	32.10	1.55	0.338	7.29	.	0	Y	12.47	0	0	0
7/22/2002	LBL	LH	0	34.20	7.29	0.330	7.77	.	100	Y	11.75	BLG	5	1
7/22/2002	LBL	LB	0	33.85	7.56	0.308	7.81	.	50	Y	11.75	BLG	5	1
7/22/2002	LBL	LB	0	33.85	7.56	0.308	7.81	.	50	Y	11.75	MEN	5	9
7/22/2002	LBL	LH	1	33.61	6.13	0.333	7.55	.	100	Y	11.75	0	0	0
7/22/2002	LBL	LB	1	33.46	4.92	0.335	7.50	.	50	Y	11.75	LEP	3	1
7/22/2002	LBL	LB	1	33.46	4.92	0.335	7.50	.	50	Y	11.75	SWP	5	1
7/22/2002	LBL	LB	1	33.46	4.92	0.335	7.50	.	50	Y	11.75	UID	4	1
7/22/2002	LBL	C	0	33.51	8.02	0.331	7.78	.	0	Y	11.75	0	0	0
7/22/2002	LBL	RH	0	34.36	7.22	0.329	7.87	.	100	Y	11.75	LMB	5	1
7/22/2002	LBL	RB	0	34.25	6.09	0.331	7.78	.	50	Y	11.75	LMB	5	2
7/22/2002	LBL	RH	1	33.23	3.41	0.333	7.42	.	100	Y	11.75	0	0	0
7/22/2002	LBL	RB	1	33.83	4.98	0.335	7.46	.	50	N	1.00	0	0	0
7/22/2002	LBL	C	1	31.45	1.48	0.331	7.19	.	0	Y	11.88	LEP	5	1
7/22/2002	GL1	LH	0	34.11	6.26	0.347	7.78	.	100	Y	13.68	0	0	0
7/22/2002	GL1	LB	0	33.99	7.97	0.344	8.09	.	50	Y	13.70	MEN	5	2
7/22/2002	GL1	LH	0.5	34.16	6.45	0.346	7.88	.	100	Y	13.72	0	0	0
7/22/2002	GL1	LB	0.5	33.11	4.91	0.344	7.71	.	50	Y	13.73	BLG	5	5
7/22/2002	GL1	LB	0	33.87	9.67	0.340	8.39	.	0	Y	13.77	WAM	5	1
7/22/2002	GL1	C	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	MEN	5	1
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	LEP	3	2
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	BLG	5	1
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	GAM	5	2
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	LEK	5	2

Date	Site	Pos	Depth	Temp	DO	Cond	pH	Secchi	Cov	Suc	Time	Species	Stage	Num
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	LEP	5	5
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	PIP	5	1
7/22/2002	GL1	RH	0	34.33	6.01	0.344	7.73	.	100	Y	13.78	WAM	5	1
7/22/2002	GL1	RB	0	34.38	7.99	0.343	8.08	.	50	Y	13.78	LEP	3	3
7/22/2002	GL1	RB	0	34.38	7.99	0.343	8.08	.	50	Y	13.78	BLG	5	7
7/22/2002	GL1	RB	0	34.38	7.99	0.343	8.08	.	50	Y	13.78	GAM	5	4
7/22/2002	GL1	RB	0	34.38	7.99	0.343	8.08	.	50	Y	13.78	LEP	5	14
7/22/2002	GL1	RB	0	34.38	7.99	0.343	8.08	.	50	Y	13.78	MEN	5	2
7/22/2002	GL1	RH	0.25	34.29	6.10	0.343	7.77	.	100	Y	13.82	BLG	5	2
7/22/2002	GL1	RH	0.25	34.29	6.10	0.343	7.77	.	100	Y	13.82	LEP	5	13
7/22/2002	GL1	RH	0.25	34.29	6.10	0.343	7.77	.	100	Y	13.82	WAM	5	3
7/22/2002	GL1	RB	1	33.72	5.47	0.343	7.87	.	50	Y	13.83	BLG	5	1
7/22/2002	GL1	RB	1	33.72	5.47	0.343	7.87	.	50	Y	13.83	LEP	5	1
7/22/2002	GL1	C	1	32.06	3.36	0.341	7.54	.	0	Y	13.83	DOR	5	1
7/22/2002	GL2	LH	0	34.49	8.21	0.347	8.05	.	0	Y	13.55	GAM	5	8
7/22/2002	GL2	LH	0	34.49	8.21	0.347	8.05	.	0	Y	13.55	MEN	5	1
7/22/2002	GL2	LB	0	34.44	8.53	0.326	8.09	.	0	N	13.55	0	0	0
7/22/2002	GL2	LH	0.75	34.49	8.21	0.347	8.05	.	50	Y	13.55	LEK	5	1
7/22/2002	GL2	LB	1	33.58	5.66	0.343	7.72	.	0	N	13.55	0	0	0
7/22/2002	GL2	C	0	34.38	8.84	0.304	8.13	.	0	Y	13.55	GAM	5	3
7/22/2002	GL2	RH	0	34.33	8.45	0.391	8.04	.	75	Y	13.57	BLG	5	8
7/22/2002	GL2	RH	0	34.33	8.45	0.391	8.04	.	75	Y	13.57	GAM	5	7
7/22/2002	GL2	RH	0	34.33	8.45	0.391	8.04	.	75	Y	13.57	WAM	5	4
7/22/2002	GL2	RB	0	34.36	8.65	0.348	8.09	.	0	Y	13.58	LEP	1	1
7/22/2002	GL2	RB	0	34.36	8.65	0.348	8.09	.	0	Y	13.58	BLG	5	1
7/22/2002	GL2	RB	0	34.36	8.65	0.348	8.09	.	0	Y	13.58	GAM	5	4
7/22/2002	GL2	RH	1	34.33	8.45	0.391	8.04	.	50	Y	13.58	0	0	0
7/22/2002	GL2	RB	1	33.50	5.78	0.365	7.71	.	0	Y	13.58	LEP	5	1
7/22/2002	GL2	C	1	32.67	3.10	0.338	7.38	.	0	Y	13.63	LEP	1	1
7/22/2002	GL2	C	1	32.67	3.10	0.338	7.38	.	0	Y	13.63	LEP	3	1
7/22/2002	GL2	C	1	32.67	3.10	0.338	7.38	.	0	Y	13.63	LEP	5	3

APPENDIX B: MACROINVERTEBRATES CAPTURED IN LIGHT TRAPS

Total number of macroinvertebrates captured in light traps at each locality, date, position, and trap depth. Abbreviations for each taxa, site, position, and variable are found on the first page.

TAXA	
AMP	Amphipoda
ANI	Anisoptera
ANN	Annelida
ARG	Argulus spp.
BEL	Belostomatidae
CHA	Chaoborus spp.
COR	Corixidae
CRA	Crawfish
DYL	Dytiscidae Larvae
DYT	Dytiscidae
ELM	Elmidae
EPH	Ephemeroptera
GAS	Gastropoda
GRS	Palaemonidae
GYL	Gyrinidae Larvae
GYR	Gyrinidae
HAL	Halipidae
HYC	Hydracarina
HYD	Hydrophilidae
ISO	Isopoda
MYS	Mysidacea
NAU	Naucoridae
NEP	Nepidae
OTH	Other (Chironomidae, Rare spp.)
PLE	Pleidae
SCI	Scirtidae
TRI	Tricoptera
ZYG	Zygoptera
SITES (S)	
GL1	Grand Lake-1
GL2	Grand Lake-2
LBL	Little Bayou Long
WF	West Fork Bayou
POSITIONS (P)	
RH	Hydrilla Right
RB	Border Right

C	Channel
LB	Border Left
LH	Hydrilla Left

VARIABLES

D	Trap Depth (m)
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DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG		
3/26/2001	GL1	RH	0	0	0	0	0	1	0	506	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	34	0	0	0	0	0	
3/26/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL1	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL1	LH	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	
3/26/2001	GL1	RH	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	
3/26/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL1	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL1	LH	0	16	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	RH	0	0	0	0	0	1	0	73	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	
3/26/2001	GL2	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	RB	0	0	0	0	0	0	0	85	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	43	0	0	0	0	0
3/26/2001	GL2	C	0	0	0	0	0	0	0	12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	
3/26/2001	GL2	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	GL2	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	WF	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	WF	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	WF	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	LBL	RH	0	0	0	0	0	1	0	50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
3/26/2001	LBL	RB	0	3	0	0	0	0	0	2	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2001	LBL	C	0	0	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	
3/26/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/26/2001	LBL	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	GL1	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	GL1	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	GL1	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
4/11/2001	GL1	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL1	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL1	RH	1	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	1	0	0	0	0	27	0	0	0	0	0	0	0
4/11/2001	GL2	LH	0	102	0	0	0	2	0	1025	0	0	0	0	5	0	0	0	0	0	0	39	0	18	0	0	0	0	0	0	0
4/11/2001	GL2	LH	1	9	0	0	0	0	0	45	0	0	0	0	0	0	0	0	1	0	0	0	0	1530	0	0	8	0	0	0	0
4/11/2001	GL2	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL2	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL2	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL2	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL2	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	GL2	RB	1	0	0	0	0	0	0	97	0	0	0	0	2	0	0	0	0	0	0	0	0	17	0	0	69	0	0	0	0
4/11/2001	GL2	RH	0	63	0	0	0	0	0	502	1	0	0	0	0	0	0	0	0	0	0	0	0	44	1	0	48	0	0	0	0
4/11/2001	GL2	RH	1	0	0	0	0	0	0	870	0	0	0	0	4	0	0	0	0	10	0	0	0	8	0	0	44	0	0	0	0
4/11/2001	WF	LH	0	31	3	0	0	0	0	96	0	0	28	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
4/11/2001	WF	LH	1	14	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0
4/11/2001	WF	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	RB	1	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	RH	0	8	0	0	0	1	0	101	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	7	0	0	0	0
4/11/2001	WF	RH	1	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0
4/11/2001	WF	LH	0	179	1	0	0	12	0	319	0	0	0	0	0	0	0	0	12	0	0	1	0	13	0	0	8	0	0	0	0
4/11/2001	WF	LH	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
4/11/2001	WF	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	LB	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2001	WF	C	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
4/11/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
4/11/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	WF	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	WF	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	WF	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	LH	1	36	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1436	0	0	0	0	0	0	0	0
4/11/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	RB	0	24	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	RB	1	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
4/11/2001	LBL	RH	0	98	0	0	0	1	0	79	2	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	19	0	0	0	0	
4/11/2001	LBL	RH	1	0	0	0	0	0	0	186	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	36	0	0	0	0	
4/11/2001	LBL	LH	0	31	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
4/11/2001	LBL	LH	1	0	0	0	0	0	0	30	1	0	0	0	0	0	0	0	0	8	0	0	0	102	0	0	3	0	0	0	0	
4/11/2001	LBL	LB	0	22	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
4/11/2001	LBL	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	C	0	21	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11/2001	LBL	RH	0	51	2	0	0	0	0	54	3	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	5	0	0	0	1	
4/11/2001	LBL	RH	1	0	0	0	0	0	0	126	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	
4/27/2001	LBL	LH	0	0	1	0	0	0	0	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
4/27/2001	LBL	LH	1	0	0	0	0	0	0	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
4/27/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	LBL	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	LBL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	LBL	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	LBL	RB	1	8	0	0	0	0	0	287	4	0	0	0	0	0	0	0	0	0	0	0	0	64	0	0	3	0	0	0	0	
4/27/2001	LBL	RH	0	0	0	0	0	2	0	351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
4/27/2001	LBL	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	WF	RH	0	9	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
4/27/2001	WF	RH	1	12	0	0	0	0	0	753	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0
4/27/2001	GL1	LH	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	2	0	8	0	0	0	0	0	0	0
4/27/2001	GL1	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
4/27/2001	GL1	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	RH	0	12	0	0	0	1	0	64	0	0	0	0	0	0	0	0	1	0	0	18	0	78	0	0	0	0	0	0	0
4/27/2001	GL1	RH	0	18	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	2688	0	0	5	0	0	0	0
4/27/2001	GL1	LH	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	66	1	0	3	0	0	0	0
4/27/2001	GL1	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	LB	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	3	0	0	0	0
4/27/2001	GL1	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2001	GL1	RH	0	13	0	0	0	0	0	10	0	0	0	0	0	0	0	0	2	0	0	0	0	53	0	1	0	0	0	0	0
4/27/2001	GL1	RH	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	690	0	0	3	0	0	0	0
4/27/2001	GL2	LH	0	5	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	0	0	17	0	23	0	0	0	0	0	0	0
4/27/2001	GL2	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
4/27/2001	GL2	LB	0	0	0	0	0	1	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
4/27/2001	GL2	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	C	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
4/27/2001	GL2	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RH	1	2	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	10	0	104	0	0	0	0	0	0	0	0
4/27/2001	GL2	LH	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0
4/27/2001	GL2	LH	1	0	0	0	0	0	0	362	0	0	1	0	0	0	0	0	0	0	0	3	0	184	0	0	6	0	0	0	0	0
4/27/2001	GL2	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/27/2001	GL2	RH	1	0	0	0	0	0	0	240	0	0	1	0	0	0	0	0	0	0	0	0	0	167	0	0	22	0	0	0	0	0
5/9/2001	WF	LH	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	
5/9/2001	WF	LH	1	6	0	0	1	0	6	5	0	0	0	0	1	0	0	0	0	0	0	0	0	230	0	0	0	0	0	0	0	0
5/9/2001	WF	LB	0	9	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	WF	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	WF	C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	WF	RB	1	0	0	0	0	0	10	12	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	
5/9/2001	WF	RH	0	4	0	0	0	0	0	660	1	0	0	0	0	0	3	0	0	0	0	4	0	3	0	0	0	0	0	0	0	0
5/9/2001	WF	RH	1	0	0	0	0	0	16	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	LBL	LH	0	10	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	
5/9/2001	LBL	LH	1	18	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	187	0	0	0	0	0	0	0	0
5/9/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	LBL	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/9/2001	LBL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
5/9/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	LBL	RB	0	7	0	0	0	1	0	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	LBL	RB	1	9	0	0	2	0	12	75	1	0	0	0	2	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0
5/9/2001	LBL	RH	0	2	0	0	0	0	0	0	0	0	0	0	1	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	LBL	RH	1	4	0	0	0	0	78	7	1	0	1	0	0	0	1	0	0	0	0	0	0	4	0	0	2	0	0	0	0
5/9/2001	GL1	LH	0	28	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL1	LH	1	1	1	0	0	0	8	0	0	0	0	0	0	0	1	0	1	0	0	0	0	279	0	0	24	0	0	0	0
5/9/2001	GL1	LB	0	5	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL1	LB	1	0	0	0	0	0	5	29	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0
5/9/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
5/9/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
5/9/2001	GL1	RB	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL1	RB	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
5/9/2001	GL1	RH	0	39	0	0	0	0	0	3	0	0	0	0	0	0	16	0	1	0	0	3	0	3	0	0	0	0	0	0	0
5/9/2001	GL1	RH	0	0	0	0	0	0	0	7	0	0	0	0	2	0	0	0	8	0	0	3	0	16	0	0	0	0	0	0	0
5/9/2001	GL2	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	LH	1	0	0	0	2	0	5	32	0	0	0	0	0	0	1	0	0	0	0	0	0	338	0	0	0	0	0	0	0
5/9/2001	GL2	LB	0	9	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	1	0	0	0	0	0	0	0
5/9/2001	GL2	LB	1	0	0	0	1	0	0	16	0	0	0	0	0	0	1	0	0	0	0	1	0	8	0	0	0	0	0	0	0
5/9/2001	GL2	C	0	6	0	0	0	1	0	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	RH	0	0	1	0	0	1	0	232	0	0	0	0	1	0	1	0	0	0	0	53	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	RH	1	0	0	0	2	0	16	64	0	0	0	0	0	0	0	0	0	0	0	3	0	120	0	0	5	0	0	0	0
5/23/2001	GL1	LH	0	58	0	0	3	0	0	12	0	0	0	0	0	0	0	0	0	1	0	0	0	107	0	2	0	0	0	0	0
5/23/2001	GL1	LH	1	5	0	0	17	0	128	37	0	0	0	0	0	2	0	0	5	2	0	0	0	1136	0	0	0	0	0	0	0
5/23/2001	GL1	LB	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
5/23/2001	GL1	LB	1	4	0	0	0	0	0	14	0	0	0	0	0	0	0	0	1	0	0	0	0	1400	0	0	0	0	0	0	0
5/23/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0
5/23/2001	GL1	C	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	27	0	0	0	0	0	0	0
5/23/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	GL1	RB	1	11	0	0	7	0	5	7	0	0	0	0	0	3	0	0	1	0	0	0	0	129	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
5/23/2001	GL1	RH	0	49	0	0	4	0	0	2	0	0	0	0	0	0	0	0	2	1	0	2	0	420	0	1	0	0	0	1	0
5/23/2001	GL1	RH	1	22	0	0	22	0	0	24	0	0	0	0	3	83	0	0	2	0	0	0	0	2104	0	0	0	0	0	0	0
5/23/2001	GL2	LH	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	6	1	0	23	0	152	0	3	0	0	0	0	0
5/23/2001	GL2	LH	1	0	0	0	10	0	0	28	0	0	0	0	0	12	0	0	0	12	0	0	0	1860	0	0	0	0	0	0	0
5/23/2001	GL2	LB	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
5/23/2001	GL2	LB	1	0	0	0	2	0	0	5	0	0	0	0	0	0	0	0	4	0	0	0	0	512	0	0	0	0	0	0	0
5/23/2001	GL2	C	0	0	0	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
5/23/2001	GL2	C	1	0	0	0	0	0	16	20	0	0	0	0	0	0	0	0	3	0	0	0	0	106	0	0	144	0	0	0	0
5/23/2001	GL2	RB	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	0
5/23/2001	GL2	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	GL2	RH	0	2	0	0	3	0	0	0	0	0	0	0	2	0	2	0	7	6	0	56	0	56	0	0	0	0	0	0	0
5/23/2001	GL2	RH	1	6	0	0	7	0	2	8	0	0	0	0	2	15	0	0	0	0	2	0	0	356	0	0	1	0	0	0	0
5/23/2001	WF	LH	0	64	0	0	0	1	0	31	0	0	0	0	0	0	1	0	0	0	0	0	0	27	0	0	0	0	0	0	0
5/23/2001	WF	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	LB	0	37	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	8	1	0	0	0	0	0	0
5/23/2001	WF	LB	1	4	0	0	0	0	0	3	0	0	0	0	1	8	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0
5/23/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	RB	0	12	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0
5/23/2001	WF	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	RH	0	64	0	0	0	1	0	392	0	0	0	0	1	0	0	0	0	6	0	0	0	12	2	5	0	0	0	0	0
5/23/2001	WF	RH	1	20	0	0	0	0	80	216	3	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
5/23/2001	LBL	LH	0	92	0	0	0	1	0	972	0	0	0	0	0	0	0	0	0	11	0	11	0	852	2	0	0	0	0	0	0
5/23/2001	LBL	LH	1	100	0	0	0	0	0	100	0	0	0	0	7	5	0	0	0	0	0	24	0	1976	2	0	0	0	0	0	0
5/23/2001	LBL	LB	0	18	0	0	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	4	0	6	0	0	0	0	0	0	0
5/23/2001	LBL	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	LBL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	LBL	RB	0	29	0	0	0	0	0	40	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	1	0	0	0	0	0
5/23/2001	LBL	RB	1	11	0	0	1	0	16	54	0	0	0	0	8	0	0	0	0	0	0	0	0	428	1	0	0	0	0	0	3
5/23/2001	LBL	RH	0	64	0	0	0	5	0	0	0	0	0	0	20	0	0	0	0	4	0	44	0	0	2	13	0	0	0	0	0
5/23/2001	LBL	RH	0	0	2	0	0	1	5	544	1	0	0	0	23	31	0	0	0	1	0	29	0	0	1	1	0	0	0	0	0
6/14/2001	WF	LH	0	11	3	0	0	418	0	26	0	20	3	0	4	2	0	0	0	28	0	219	0	2	16	30	0	0	0	0	3

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
6/14/2001	WF	LH	1	205	5	0	0	33	0	45	1	1	10	0	7	10	12	0	0	0	0	7	0	524	28	2	7	0	0	0	16
6/14/2001	WF	LB	0	26	3	0	2	29	0	28	0	0	2	0	32	0	0	0	0	0	0	3	0	0	1	9	2	0	0	0	9
6/14/2001	WF	LB	1	15	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
6/14/2001	WF	C	0	2	0	0	0	46	0	26	0	0	0	0	8	0	0	0	0	0	0	10	0	0	4	0	0	0	0	0	8
6/14/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	WF	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	WF	RH	0	7	0	0	0	1	0	21	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
6/14/2001	WF	RH	1	15	0	0	2	0	0	23	0	0	0	0	48	0	0	0	0	0	0	0	0	261	0	0	0	0	0	0	4
6/14/2001	LBL	LH	0	38	2	0	0	51	0	42	0	5	1	0	8	1	0	0	0	4	0	76	0	40	0	10	0	0	0	0	0
6/14/2001	LBL	LH	1	4	2	0	0	2	0	188	0	0	0	0	8	0	1	0	0	4	0	0	0	18	0	1	1	0	0	0	0
6/14/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	C	0	0	0	0	0	14	0	35	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	9	0	0	0	0	0
6/14/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	RB	0	0	0	0	0	0	0	59	0	0	7	0	0	0	4	0	0	0	0	22	0	0	0	7	0	0	0	0	2
6/14/2001	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	RH	0	0	2	0	0	1	0	42	0	1	0	0	1	1	0	0	0	5	0	41	0	0	0	5	0	0	0	0	0
6/14/2001	LBL	RH	1	88	2	0	0	3	0	0	0	7	0	0	6	0	0	0	0	10	0	110	0	122	0	1	0	0	0	0	10
6/14/2001	GL1	LH	0	26	1	0	0	80	0	2	0	2	3	0	1	1	0	0	1	5	0	90	0	67	4	28	0	0	0	0	2
6/14/2001	GL1	LH	1	0	0	0	4	0	52	304	0	0	0	0	5	1	0	0	2	10	6	2	0	147	1	0	0	0	0	1	19
6/14/2001	GL1	LB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	LB	1	1	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	1	0	0	0	8	0	0	0	0	0	0	0
6/14/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	RB	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
6/14/2001	GL1	RH	0	76	0	0	0	4	0	332	0	0	2	0	10	0	0	0	1	148	0	68	0	17	2	12	0	0	0	165	10
6/14/2001	GL1	RH	1	2	0	0	5	0	0	6	0	0	0	0	0	0	0	0	0	7	0	0	0	1688	0	2	0	0	0	7	0
6/14/2001	GL2	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL2	LH	1	1	1	0	8	1	232	388	0	0	0	0	38	0	0	0	2	41	0	10	0	40	0	0	45	0	0	0	64
6/14/2001	GL2	LB	0	1	1	0	0	0	0	50	0	0	0	0	2	0	0	0	0	1	0	0	0	14	0	0	1	0	0	0	0
6/14/2001	GL2	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
6/14/2001	GL2	C	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	1	0	0	0	19	0	0	0	0	0	0	0
6/14/2001	GL2	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL2	RB	0	6	1	0	0	0	0	126	0	0	0	0	1	0	0	0	3	6	0	2	0	18	0	0	1	0	0	0	0
6/14/2001	GL2	RB	1	0	0	0	1	0	0	78	0	0	0	0	6	0	0	0	0	1	0	0	0	7	0	0	10	0	0	0	0
6/14/2001	GL2	RH	0	36	0	0	1	6	0	1980	0	0	0	0	0	0	0	0	0	151	0	28	0	240	0	1	0	0	0	0	0
6/14/2001	GL2	RH	1	0	2	0	0	1	0	293	0	0	0	0	1	1	0	0	0	17	0	6	0	0	0	0	0	0	0	0	3
7/3/2001	LBL	LH	0	1	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	1	0	1	0	2	0	0	0	0	0	0	0
7/3/2001	LBL	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0
7/3/2001	LBL	LB	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	17	0	1	0	0	0	0	0
7/3/2001	LBL	LB	1	32	0	0	0	3	0	4	0	0	0	0	4	0	0	0	1	0	0	28	0	162	7	0	0	0	0	0	4
7/3/2001	LBL	C	0	1	0	0	0	1	0	2	0	0	0	0	4	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1
7/3/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	LBL	RB	0	1	0	0	0	0	0	7	0	0	0	0	4	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
7/3/2001	LBL	RB	1	6	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0
7/3/2001	LBL	RH	0	6	0	0	0	3	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	85	1	5	0	0	0	0	1
7/3/2001	LBL	RH	1	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
7/3/2001	WF	LH	0	15	0	0	0	1	0	0	0	0	0	0	6	5	0	0	0	0	0	3	0	2	0	0	2	0	0	0	1
7/3/2001	WF	LH	1	3	0	0	0	0	14	5	0	0	0	0	1	9	1	0	0	0	0	4	0	260	1	0	24	0	0	0	4
7/3/2001	WF	LB	0	3	0	0	0	0	0	1	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	WF	LB	1	10	0	0	0	0	0	17	0	0	0	0	2	0	0	0	0	3	0	0	0	2012	0	2	0	0	0	0	1
7/3/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	WF	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215	0	0	0	0	0	0	0
7/3/2001	WF	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	WF	RH	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0
7/3/2001	GL1	LH	0	43	0	0	0	0	0	48	0	0	0	0	2	4	6	0	0	1	0	0	0	164	0	0	0	0	0	0	2
7/3/2001	GL1	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	GL1	LB	0	17	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
7/3/2001	GL1	LB	1	6	0	0	1	0	0	9	0	0	0	0	1	0	0	0	0	0	0	0	0	296	0	0	1	0	0	0	0
7/3/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	GL1	RB	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
7/3/2001	GL1	RB	1	1	0	0	0	0	0	36	0	0	0	0	1	0	0	0	0	0	0	0	0	98	0	0	2	0	0	0	0
7/3/2001	GL1	RH	0	108	0	0	1	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	325	0	1	0	0	0	0	0
7/3/2001	GL1	RH	1	3	0	0	2	0	4	14	0	0	0	0	2	48	0	0	2	0	0	0	0	1908	0	0	4	0	0	0	0
7/3/2001	GL2	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2001	GL2	LH	1	32	4	0	1	0	14	45	0	0	1	0	6	0	0	0	0	1	0	0	0	2428	0	0	4	0	0	0	2
7/3/2001	GL2	LB	0	7	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	6	1	1	2	0	0	0	0
7/3/2001	GL2	LB	1	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	118	0	0	0	0	0	0	1
7/3/2001	GL2	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
7/3/2001	GL2	C	1	0	0	0	1	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
7/3/2001	GL2	RB	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0	0
7/3/2001	GL2	RB	1	0	0	0	0	0	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	421	0	0	4	0	0	0	0
7/3/2001	GL2	RH	0	9	0	0	0	2	0	8	0	0	0	0	0	0	0	0	1	0	0	0	0	5	1	0	0	0	0	0	0
7/3/2001	GL2	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	WF	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	WF	LH	0	21	0	0	0	0	320	34	0	0	0	0	0	15	0	0	0	3	0	4	0	6536	0	0	0	0	0	0	2
7/17/2001	WF	LB	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
7/17/2001	WF	LB	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	196	0	0	0	0	0	0	0
7/17/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	WF	C	1	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
7/17/2001	WF	RB	0	6	0	0	2	0	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	390	0	0	0	0	0	0	0
7/17/2001	WF	RB	1	8	0	0	2	0	19	6	0	0	0	0	2	42	0	0	0	0	0	1	0	2797	0	0	22	0	0	1	0
7/17/2001	WF	RH	0	3	0	0	0	0	0	0	0	0	0	0	4	0	2	0	0	6	0	6	0	220	0	0	0	0	0	0	0
7/17/2001	WF	RH	1	7	0	0	0	0	184	9	0	0	0	0	16	5	0	0	0	1	0	1	0	119	0	0	9	0	0	1	1
7/17/2001	LBL	LH	0	308	1	0	0	0	0	47	0	1	0	0	0	0	4	0	0	0	0	7	0	1096	1	0	0	0	0	3	1
7/17/2001	LBL	LH	1	20	0	0	0	0	8	24	1	0	0	0	21	35	44	0	0	12	0	3	0	2761	2	0	0	0	0	3	0
7/17/2001	LBL	LB	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
7/17/2001	LBL	LB	1	6	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	720	0	0	0	0	0	1	0
7/17/2001	LBL	C	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	0	0	0	0	0	0	0
7/17/2001	LBL	C	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0
7/17/2001	LBL	RB	0	11	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	2	0	0	0	511	0	8	0	0	0	0	0
7/17/2001	LBL	RB	1	9	0	0	8	0	17	12	0	0	0	0	14	67	0	0	0	0	0	5	0	1440	0	0	8	0	0	0	3
7/17/2001	LBL	RH	0	12	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	5	0	212	0	2	0	0	0	0	1
7/17/2001	LBL	RH	1	24	0	0	0	0	0	0	0	0	0	0	4	96	0	0	0	3	0	7	0	412	0	0	0	0	0	0	2

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
7/17/2001	GL1	LH	0	166	0	0	1	0	0	19	0	0	0	0	2	0	0	0	11	4	0	0	0	50	0	5	0	0	0	0	0	1
7/17/2001	GL1	LH	1	0	0	0	7	0	0	0	0	0	0	0	0	0	40	0	7	34	0	0	0	172	0	1	0	0	0	0	0	0
7/17/2001	GL1	LB	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
7/17/2001	GL1	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
7/17/2001	GL1	RB	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0
7/17/2001	GL1	RB	1	3	0	0	5	0	2	43	0	0	0	0	0	0	0	0	5	0	0	0	0	910	0	0	0	0	0	0	0	0
7/17/2001	GL1	RH	0	24	0	0	8	0	0	10	0	0	0	0	0	0	0	0	10	3	0	3	0	417	0	0	0	0	0	0	0	0
7/17/2001	GL1	RH	1	13	0	0	1	0	1	0	0	0	0	0	0	0	26	0	34	10	0	0	0	518	0	6	0	0	0	0	5	1
7/17/2001	GL2	LH	0	2	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
7/17/2001	GL2	LH	1	1	1	0	19	0	5	3	0	0	0	0	0	0	28	0	0	9	0	0	0	1552	2	0	0	0	0	0	0	0
7/17/2001	GL2	LB	0	3	0	0	0	0	1	6	0	0	0	0	0	33	1	0	3	2	0	4	0	52	0	2	0	0	0	0	0	0
7/17/2001	GL2	LB	1	0	0	0	6	0	9	2	0	0	0	0	0	0	8	0	3	2	0	0	0	1100	0	0	0	0	0	0	0	0
7/17/2001	GL2	C	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
7/17/2001	GL2	C	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	1	0	0	0	8	0	0	0	0	0	0	0	0
7/17/2001	GL2	RB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	1	0	0	0	3	0	0	6	0	0	0	0	0
7/17/2001	GL2	RB	1	1	0	0	6	0	1	1	0	0	0	0	0	0	0	0	8	0	0	0	0	384	0	0	0	0	0	0	0	0
7/17/2001	GL2	RH	0	8	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	103	0	0	0	0	0	0	0	0
7/17/2001	GL2	RH	0	11	0	0	1	0	0	7	0	0	0	0	0	0	9	0	1	4	0	0	0	676	0	0	0	0	0	0	1	0
7/30/2001	GL1	LH	0	17	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	23	0	0	0	0	10	0
7/30/2001	GL1	LH	1	16	0	0	19	0	0	5	0	0	0	0	1	0	0	0	0	0	0	5	0	900	0	0	0	0	0	0	3	0
7/30/2001	GL1	LB	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	42	0	0	0	0	0	0	0	0
7/30/2001	GL1	LB	1	0	0	0	16	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	2184	0	0	0	0	0	0	0	1
7/30/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	GL1	C	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0
7/30/2001	GL1	RB	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
7/30/2001	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	GL1	RH	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	288	0	1	0	0	0	0	0	0
7/30/2001	GL1	RH	1	0	0	0	2	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	294	0	0	0	0	0	0	0	0
7/30/2001	GL2	LH	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	3	0	0	0	35	0	0	0	0	0	0	0	0
7/30/2001	GL2	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	GL2	LB	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
7/30/2001	GL2	LB	1	0	0	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1576	0	0	0	0	0	0	0
7/30/2001	GL2	C	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
7/30/2001	GL2	C	1	0	0	0	3	0	0	6	0	0	0	0	0	0	0	0	0	1	0	0	0	152	0	0	0	0	0	3	0
7/30/2001	GL2	RB	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	7	0	0	0	0	4	0	1	0	0	0	0	0
7/30/2001	GL2	RB	1	0	0	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	428	0	0	0	0	0	0	0
7/30/2001	GL2	RH	0	9	0	0	0	0	0	7	0	0	0	0	0	0	0	0	21	0	0	0	0	35	0	0	0	0	0	0	0
7/30/2001	GL2	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	WF	LH	0	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	1
7/30/2001	WF	LH	1	0	0	0	0	0	0	39	0	0	0	0	1	5	0	0	0	0	0	1	0	3032	0	0	0	0	0	0	0
7/30/2001	WF	LB	0	41	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0
7/30/2001	WF	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	WF	RB	0	0	0	0	586	2	0	7	0	0	0	0	56	0	0	0	0	0	0	1	0	31	0	8	0	0	0	0	6
7/30/2001	WF	RB	1	0	0	0	0	0	0	28	0	0	0	0	21	46	0	0	0	0	0	0	0	84	0	0	0	0	0	0	1
7/30/2001	WF	RH	0	167	0	0	0	0	0	18	0	0	0	0	3	2	7	0	0	0	0	0	0	14	1	2	1	0	0	0	0
7/30/2001	WF	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	LBL	LH	0	117	0	0	1	0	0	16	0	0	0	0	0	0	7	0	1	0	0	0	0	34	0	3	0	0	0	5	1
7/30/2001	LBL	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
7/30/2001	LBL	LB	1	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	508	0	0	0	0	0	0	0
7/30/2001	LBL	C	0	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	LBL	C	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
7/30/2001	LBL	RB	0	20	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	16	0	1	0	0	0	0	0
7/30/2001	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2001	LBL	RH	0	67	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	3
7/30/2001	LBL	RH	0	35	0	0	0	0	0	1	0	0	0	0	4	35	0	0	0	0	0	0	0	17	0	0	32	0	0	0	8
8/15/2001	GL1	LH	0	22	0	0	1	0	0	5	0	0	0	0	2	0	0	0	2	8	0	0	0	17	2	6	0	0	0	0	0
8/15/2001	GL1	LH	1	3	0	0	26	0	0	9	0	0	0	0	0	0	4	0	0	1	0	0	0	2964	0	0	0	0	0	0	0
8/15/2001	GL1	LB	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
8/15/2001	GL1	LB	1	0	0	0	0	0	0	19	0	0	0	0	1	0	0	0	1	0	0	0	0	764	0	0	0	0	0	0	0
8/15/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL1	C	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
8/15/2001	GL1	RB	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	5	0	0	0	0	38	0	2	0	0	0	0	1
8/15/2001	GL1	RB	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	0	0	0
8/15/2001	GL1	RH	0	1	1	0	6	0	0	11	0	0	0	0	4	0	0	0	9	20	0	4	0	472	1	5	0	0	0	0	0
8/15/2001	GL1	RH	0	44	0	0	28	0	4	6	0	0	0	0	2	4	0	0	0	12	20	0	0	6192	0	0	0	0	0	0	1
8/15/2001	GL2	LH	0	7	0	0	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	728	0	1	0	0	0	0	0
8/15/2001	GL2	LH	1	11	0	0	13	0	0	12	0	0	0	0	0	5	0	0	0	2	0	0	0	580	1	2	0	0	0	0	0
8/15/2001	GL2	LB	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0
8/15/2001	GL2	LB	1	2	0	0	5	0	0	12	0	0	0	0	0	2	0	0	0	0	0	1	0	988	0	0	0	0	0	0	0
8/15/2001	GL2	C	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	71	0	1	0	0	0	0	0
8/15/2001	GL2	C	1	3	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0
8/15/2001	GL2	RB	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
8/15/2001	GL2	RB	1	6	0	0	9	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	772	0	0	0	0	0	0	0
8/15/2001	GL2	RH	0	1	0	0	6	1	0	2	0	0	0	0	0	2	0	0	3	2	0	0	0	63	0	0	0	0	0	0	0
8/15/2001	GL2	RH	1	8	0	0	4	0	28	5	0	0	0	0	0	3	0	0	5	0	0	0	0	612	0	0	0	0	0	0	0
8/15/2001	LBL	LH	0	332	2	0	0	15	0	11	0	0	0	0	4	0	4	0	41	11	0	17	0	56	3	9	0	0	0	0	0
8/15/2001	LBL	LH	1	64	1	0	0	0	0	9	0	0	0	0	36	40	68	0	0	0	0	0	0	616	2	4	0	0	0	0	16
8/15/2001	LBL	LB	0	72	0	0	0	0	0	0	0	1	0	0	4	0	0	0	3	0	0	29	0	0	0	0	0	0	0	0	2
8/15/2001	LBL	LB	1	20	0	0	3	0	0	6	0	0	0	0	2	0	0	0	1	0	0	0	0	324	0	0	0	0	0	0	0
8/15/2001	LBL	C	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	21	0	0	5	0	1	1	0	0	0	0	0	0
8/15/2001	LBL	C	1	4	0	0	0	1	0	0	0	0	0	0	0	8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
8/15/2001	LBL	RB	0	104	4	0	0	41	0	1	0	0	0	0	2	0	12	0	30	0	0	15	0	0	1	9	0	0	0	0	2
8/15/2001	LBL	RB	1	16	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	284	0	1	0	0	0	0	0
8/15/2001	LBL	RH	0	0	5	0	0	9	0	0	0	0	0	0	4	0	4	0	0	9	0	6	0	16	2	9	0	0	0	0	2
8/15/2001	LBL	RH	1	0	0	0	0	0	0	2	0	0	0	0	20	0	0	0	1	0	0	1	0	84	1	2	0	0	0	0	0
8/15/2001	WF	LH	0	40	0	0	0	0	0	3	0	0	0	0	0	0	0	0	5	0	0	0	0	6	1	0	0	0	0	0	0
8/15/2001	WF	LH	1	0	0	0	5	0	0	5	0	0	0	0	0	7	0	0	15	0	0	0	0	244	0	0	0	0	0	0	1
8/15/2001	WF	LB	0	12	0	0	4	7	0	0	0	0	0	0	8	0	0	0	44	0	0	6	0	8	5	2	0	0	0	0	3
8/15/2001	WF	LB	1	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	WF	C	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
8/15/2001	WF	RB	0	18	0	0	0	0	0	4	0	0	0	0	4	0	0	0	6	2	0	0	0	4	0	0	0	0	0	0	2
8/15/2001	WF	RB	1	0	0	0	8	0	44	0	0	0	0	0	12	21	0	0	0	1	0	2	0	116	0	0	0	0	0	0	1
8/15/2001	WF	RH	0	72	1	0	0	3	0	2	0	0	0	0	1	5	8	0	1	1	0	2	0	32	2	8	0	0	0	0	2

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
8/15/2001	WF	RH	1	8	5	0	0	4	0	4	0	0	0	0	32	12	32	0	0	0	0	12	0	20	2	6	0	0	0	0	32
8/30/2001	GL1	LH	0	5	2	0	1	0	0	0	0	0	0	0	4	0	0	1	9	0	0	0	1	0	8	0	0	0	0	1	0
8/30/2001	GL1	LH	0	4	0	0	2	0	3	0	0	0	0	0	2	2	0	0	0	1	0	0	0	8	0	0	0	0	0	0	0
8/30/2001	GL1	LB	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	8	0	0	0	0	0	0	2
8/30/2001	GL1	LB	1	0	0	0	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1884	0	0	0	0	0	0	0
8/30/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
8/30/2001	GL1	C	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	0	0	0	0	0	0	0
8/30/2001	GL1	RB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	4	0	0	0	0	0	0	0
8/30/2001	GL1	RB	1	12	0	0	2	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	28	0	0	0	0	0	0	0
8/30/2001	GL1	RH	0	0	1	0	0	0	0	0	0	0	0	0	2	14	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
8/30/2001	GL1	RH	1	0	0	0	11	0	24	0	0	0	0	0	1	0	0	0	0	0	0	0	0	372	0	0	0	0	0	0	0
8/30/2001	GL2	LH	0	3	0	0	8	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	2504	0	0	0	0	0	0	0
8/30/2001	GL2	LH	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	7	0	0	0	68	0	0	0	0	0	0	0
8/30/2001	GL2	LB	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0
8/30/2001	GL2	LB	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	440	0	0	0	0	0	0	0
8/30/2001	GL2	C	0	3	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	34	0	0	0	0	0	0	0
8/30/2001	GL2	C	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	260	0	0	0	0	0	0	0
8/30/2001	GL2	RB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0
8/30/2001	GL2	RB	1	0	0	0	4	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	384	0	0	0	0	0	0	0
8/30/2001	GL2	RH	0	4	0	0	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	57	0	0	0	0	0	0	0
8/30/2001	GL2	RH	1	0	0	0	8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	412	0	0	0	0	0	0	0
8/30/2001	WF	LH	0	5	0	0	0	2	0	0	0	0	0	0	3	0	1	0	2	0	0	0	0	0	1	2	0	0	0	0	0
8/30/2001	WF	LH	1	0	0	0	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0
8/30/2001	WF	LB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
8/30/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
8/30/2001	WF	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	RB	1	0	0	0	0	0	24	3	0	0	0	0	0	3	0	0	0	0	0	0	0	106	0	0	0	0	0	0	1
8/30/2001	WF	RH	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	3	0	1	0	0	1	4	0	0	0	0	2
8/30/2001	WF	RH	1	20	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	16	0	0	0	2	0	0	0	0	0	0	0
8/30/2001	LBL	LH	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	1	0	0	0	0	0
8/30/2001	LBL	LH	1	0	0	0	6	0	32	0	0	0	0	0	0	7	0	0	0	0	2	0	0	80	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
8/30/2001	LBL	LB	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	LBL	LB	1	0	0	0	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0	1	0	0	0	0	0
8/30/2001	LBL	C	0	35	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	LBL	RB	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0
8/30/2001	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	LBL	RH	0	11	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
8/30/2001	LBL	RH	1	0	1	0	2	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
9/13/2001	WF	LH	0	8	0	0	20	1	0	16	0	0	0	0	0	0	8	0	0	40	0	0	0	132	0	3	0	0	0	0	4
9/13/2001	WF	LH	1	1	0	0	24	0	12	48	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0
9/13/2001	WF	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2001	WF	LB	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
9/13/2001	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2001	WF	C	1	24	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	7	0	4	0	8	4	4	0	0	0	0	0
9/13/2001	WF	RB	0	10	0	0	2	0	0	23	0	0	0	0	0	0	2	0	0	6	0	0	0	56	0	1	0	0	0	0	0
9/13/2001	WF	RB	1	0	1	0	4	0	16	7	0	0	0	0	0	12	0	0	0	0	0	0	0	180	0	0	0	0	0	0	0
9/13/2001	WF	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
9/13/2001	WF	RH	1	24	1	0	1	1	0	2	0	0	0	0	4	0	2	0	0	6	0	1	0	26	2	1	0	0	0	0	5
9/13/2001	LBL	LH	0	6	0	0	0	0	0	15	0	0	0	0	0	0	4	0	0	4	0	0	0	12	0	0	0	0	0	0	0
9/13/2001	LBL	LH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2001	LBL	LB	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
9/13/2001	LBL	LB	1	0	0	0	3	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	1
9/13/2001	LBL	C	0	0	0	0	0	1	0	2	0	0	0	0	8	0	8	0	0	0	0	0	0	3	1	1	0	0	0	0	0
9/13/2001	LBL	C	1	0	0	0	0	0	7	10	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
9/13/2001	LBL	RB	0	5	0	0	3	0	0	5	0	0	0	0	0	0	9	0	0	3	0	0	0	2	0	2	0	0	0	0	0
9/13/2001	LBL	RB	1	2	0	0	19	0	0	5	0	0	0	0	2	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	2
9/13/2001	LBL	RH	0	7	0	0	0	0	0	2	0	0	1	0	0	5	9	0	0	0	0	0	0	3	0	0	0	0	0	0	0
9/13/2001	LBL	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2001	GL1	LH	0	6	0	0	1	0	0	31	0	0	0	0	0	0	11	0	1	2	0	0	0	164	0	0	0	0	0	0	0
9/13/2001	GL1	LH	1	4	0	0	14	0	0	43	0	0	0	0	0	0	0	0	0	7	0	0	0	42	0	0	0	0	0	0	0
9/13/2001	GL1	LB	0	0	0	0	3	0	0	48	0	0	0	0	0	0	0	0	4	2	0	0	0	2	0	0	0	0	0	0	0
9/13/2001	GL1	LB	1	0	0	0	5	0	0	15	0	0	0	0	1	0	0	0	0	0	0	0	0	1168	0	0	0	0	0	0	0
9/13/2001	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
9/13/2001	GL1	C	1	0	0	0	0	0	68	2	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
9/13/2001	GL1	RB	0	1	0	0	1	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
9/13/2001	GL1	RB	1	0	0	0	13	0	128	12	0	0	0	0	0	2	0	0	1	0	0	0	0	220	0	0	0	0	0	0	0
9/13/2001	GL1	RH	0	45	0	0	2	0	0	26	0	0	0	0	1	0	0	0	1	10	0	2	0	81	0	3	0	0	0	0	0
9/13/2001	GL1	RH	1	0	0	0	40	0	0	32	0	0	0	0	1	4	0	0	0	1	0	0	0	220	0	0	0	0	0	0	0
9/13/2001	GL2	LH	0	0	1	0	0	1	0	4	0	2	0	0	0	0	0	0	0	47	0	2	0	4	2	8	0	0	0	0	0
9/13/2001	GL2	LH	1	1	0	0	16	0	0	3	0	0	0	0	8	0	0	0	1	62	0	10	0	372	1	6	0	0	0	0	0
9/13/2001	GL2	LB	0	2	0	0	3	0	0	11	0	0	0	0	2	0	0	0	1	6	0	3	0	124	0	3	0	0	0	0	0
9/13/2001	GL2	LB	1	4	0	0	4	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	3376	0	0	0	0	0	0	0
9/13/2001	GL2	C	0	1	0	0	2	1	0	15	0	1	0	0	3	0	0	0	4	1	0	3	0	0	0	1	0	0	0	0	0
9/13/2001	GL2	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2001	GL2	RB	0	0	0	0	0	0	0	8	0	0	0	0	2	0	0	0	0	1	0	1	0	1	0	2	0	0	0	0	1
9/13/2001	GL2	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2001	GL2	RH	0	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6	0	3	0	34	0	2	0	0	0	0	0
9/13/2001	GL2	RH	1	20	0	0	6	0	4	5	0	0	0	0	0	0	0	0	0	3	0	0	0	124	0	0	0	0	0	0	0
3/5/2002	WF	LH	0	16	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
3/5/2002	WF	LH	1	9	0	1	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	61	0	0	0	0	0	0	0
3/5/2002	WF	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	WF	LB	1	15	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	7	117	0	0	0	0	0	0	0
3/5/2002	WF	C	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	WF	C	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
3/5/2002	WF	RB	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
3/5/2002	WF	RB	1	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
3/5/2002	WF	RH	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
3/5/2002	WF	RH	1	6	0	0	0	0	0	1	0	0	0	0	4	1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1
3/5/2002	LBL	LH	0	2	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
3/5/2002	LBL	LH	1	14	0	0	0	1	0	0	0	0	0	0	0	6	0	0	0	1	0	0	3	59	0	0	0	0	0	0	0
3/5/2002	LBL	LB	0	2	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
3/5/2002	LBL	LB	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	LBL	C	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3/5/2002	LBL	C	1	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	LBL	RB	0	4	0	0	3	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3/5/2002	LBL	RB	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
3/5/2002	LBL	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	LBL	RH	1	6	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0
3/5/2002	GL1	LH	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
3/5/2002	GL1	LH	1	6	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	1	38	0	0	0	0	0	0	0	0
3/5/2002	GL1	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL1	LB	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL1	C	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL1	RB	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
3/5/2002	GL1	RH	0	16	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1
3/5/2002	GL1	RH	1	8	0	0	0	0	39	11	0	0	0	0	0	24	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0
3/5/2002	GL2	LH	0	6	0	0	0	0	8	23	0	0	0	0	3	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
3/5/2002	GL2	LH	1	0	0	0	0	0	3	4	0	0	0	0	2	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0
3/5/2002	GL2	LB	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
3/5/2002	GL2	LB	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0
3/5/2002	GL2	C	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
3/5/2002	GL2	C	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL2	RB	0	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
3/5/2002	GL2	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
3/5/2002	GL2	RH	0	6	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	2	0	0	0	8	0	0	0	0	0	0	0	0
3/5/2002	GL2	RH	1	0	0	0	1	0	1	25	0	0	0	0	0	1	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0
3/19/2002	LBL	LH	0	20	0	0	0	0	0	128	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7	3	0	0	0	0	0	0
3/19/2002	LBL	LH	1	76	0	0	0	0	0	272	0	0	0	0	0	1	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0
3/19/2002	LBL	LB	0	38	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0
3/19/2002	LBL	LB	1	72	0	0	5	0	4	292	3	0	0	0	0	16	0	0	0	0	0	0	2	148	0	0	0	0	0	0	0	0
3/19/2002	LBL	C	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	LBL	C	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3/19/2002	LBL	RB	0	25	0	0	0	0	0	113	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	5	0	0	0	0	0	1
3/19/2002	LBL	RB	1	36	0	0	0	0	0	472	0	0	0	0	1	0	0	0	1	0	0	0	0	20	0	0	0	0	0	0	0	1
3/19/2002	LBL	RH	0	19	0	0	0	1	0	49	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0
3/19/2002	LBL	RH	1	37	0	0	0	0	0	8	1	0	0	0	1	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
3/19/2002	WF	LH	0	72	0	0	0	3	0	324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	2	0	0	0	0	0	1

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
3/19/2002	WF	LH	1	76	0	0	0	0	4	192	1	0	0	0	0	3	0	0	0	0	0	4	0	20	1	0	0	0	0	0	0	0
3/19/2002	WF	LB	0	22	0	0	1	0	0	172	0	0	0	0	0	0	0	0	0	0	0	5	0	0	9	6	0	0	0	0	0	1
3/19/2002	WF	LB	1	8	0	0	5	0	0	140	0	0	0	0	1	0	0	0	1	0	0	0	1	92	0	0	1	0	0	0	0	0
3/19/2002	WF	C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/19/2002	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/19/2002	WF	RB	0	9	0	0	0	0	0	252	0	0	0	0	0	0	0	0	2	15	0	0	0	1	17	1	0	0	0	0	0	1
3/19/2002	WF	RB	1	12	0	0	0	0	0	264	0	0	0	0	0	1	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0
3/19/2002	WF	RH	0	8	0	0	0	1	0	47	0	0	0	0	0	8	0	0	0	6	0	0	0	0	3	5	0	0	0	0	0	0
3/19/2002	WF	RH	1	88	0	0	1	1	0	4	0	0	0	0	2	0	0	0	0	0	0	3	0	124	8	0	0	0	0	0	0	4
3/19/2002	GL1	LH	0	44	0	0	0	0	0	17	0	0	0	0	0	0	0	0	8	39	0	0	1	36	1	4	0	0	0	0	0	0
3/19/2002	GL1	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/19/2002	GL1	LH	1	28	0	0	0	0	4	72	0	0	0	0	4	56	0	0	0	4	0	0	3	100	0	0	0	0	0	0	0	0
3/19/2002	GL1	LB	1	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	1	58	0	0	0	0	0	0	0	0
3/19/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/19/2002	GL1	RH	0	10	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	3	0	0	0	7	0	0	0	0	0	0	0	0
3/19/2002	GL1	RB	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	GL1	RH	1	7	0	0	2	0	0	2	0	0	0	0	2	0	0	0	0	10	0	2	0	112	0	0	0	0	0	0	0	0
3/19/2002	GL1	RB	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3/19/2002	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	GL2	LH	0	23	0	0	0	0	0	21	0	0	0	0	0	0	0	0	5	31	0	7	0	100	0	8	0	0	0	0	0	0
3/19/2002	GL2	LB	0	13	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
3/19/2002	GL2	LH	1	3	0	0	4	0	4	6	0	0	0	0	1	22	0	0	0	0	0	0	0	232	0	0	0	0	0	0	0	0
3/19/2002	GL2	LB	1	1	0	0	1	0	0	3	0	0	0	0	0	0	0	0	5	3	0	0	0	268	0	0	0	0	0	0	0	1
3/19/2002	GL2	C	0	4	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0
3/19/2002	GL2	RH	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	0	6	0	50	2	4	0	0	0	0	0	0
3/19/2002	GL2	RB	0	17	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	1	0	0	0	64	1	0	0	0	0	0	0	0
3/19/2002	GL2	RH	1	24	0	0	0	0	0	12	0	0	0	0	12	43	0	0	0	3	0	0	0	1072	1	0	0	0	0	0	0	0
3/19/2002	GL2	RB	1	1	0	0	3	0	8	0	0	0	0	0	2	26	0	0	0	0	0	0	0	268	0	0	0	0	0	0	0	0
3/19/2002	GL2	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0
4/9/2002	LBL	LH	0	71	0	0	0	6	0	22	0	0	0	0	1	0	0	0	2	2	0	1	0	4	3	1	0	0	0	0	0	2
4/9/2002	LBL	LB	0	22	0	0	0	0	0	17	0	0	0	0	7	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
4/9/2002	LBL	LH	1	43	0	0	0	0	0	94	0	0	0	0	1	0	0	0	1	0	0	0	2	22	2	0	0	0	0	0	0	0
4/9/2002	LBL	LB	1	14	0	0	0	0	0	24	0	0	0	0	1	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG			
4/9/2002	LBL	C	0	68	0	0	0	2	0	140	0	0	0	0	0	0	0	0	0	1	0	0	1	0	26	0	0	0	0	0	0	1		
4/9/2002	LBL	RH	0	8	0	0	0	19	0	1528	0	1	0	0	0	0	12	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0		
4/9/2002	LBL	RB	0	9	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/9/2002	LBL	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/9/2002	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/9/2002	LBL	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/9/2002	WF	LH	0	366	0	0	0	139	0	24	0	2	0	0	3	2	0	0	0	4	0	0	0	0	7	4	0	0	0	0	0	0	0	
4/9/2002	WF	LB	0	54	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
4/9/2002	WF	LH	1	220	0	0	0	0	0	380	0	0	1	0	1	5	0	0	0	0	0	0	0	16	0	1	0	0	0	0	0	0	0	
4/9/2002	WF	LB	1	180	0	0	0	0	0	192	0	0	0	0	7	1	0	0	2	0	0	0	0	9	0	0	0	0	0	0	0	0	0	
4/9/2002	WF	C	0	67	0	0	0	1	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/9/2002	WF	RH	0	34	0	0	0	1	0	50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/9/2002	WF	RB	0	35	1	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
4/9/2002	WF	RH	1	11	0	0	0	0	0	130	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
4/9/2002	WF	RB	1	36	0	0	0	0	0	268	0	0	0	0	7	1	13	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
4/9/2002	WF	C	1	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/9/2002	GL1	LH	0	7	0	0	0	2	0	7	0	0	0	0	0	0	0	0	2	0	0	0	0	11	0	0	0	0	0	0	0	0	0	
4/9/2002	GL1	LB	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/9/2002	GL1	LH	1	6	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	2	0	0	1	67	0	0	0	0	0	0	0	0	0	
4/9/2002	GL1	LB	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/9/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/9/2002	GL1	RH	0	33	0	0	0	0	0	22	0	0	0	0	2	0	0	0	0	19	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL1	RB	0	27	0	0	0	0	0	55	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0
4/9/2002	GL1	RH	1	116	0	0	0	0	0	120	1	0	0	0	0	0	0	0	3	27	0	1	0	132	0	0	0	0	0	0	0	0	1	0
4/9/2002	GL1	RB	1	2	0	0	0	0	0	0	0	0	0	0	2	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	LH	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	3	0	2	0	4	1	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	LB	0	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	LH	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	LB	1	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	C	0	4	0	0	0	0	0	49	0	0	0	0	0	0	0	0	1	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	RH	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	1	9	0	0	0	0	0	2	0	0	0	0	0	0	0	0
4/9/2002	GL2	RB	0	5	0	0	0	0	0	67	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
4/9/2002	GL2	RH	1	6	0	0	1	0	1	125	1	0	0	0	0	0	0	0	0	1	0	0	0	119	0	0	0	0	0	0	0	0
4/9/2002	GL2	RB	1	3	0	0	0	1	0	71	0	0	0	0	2	0	0	0	9	3	0	0	0	5	0	0	0	0	0	0	0	0
4/9/2002	GL2	C	1	0	0	0	2	0	0	31	0	0	0	0	2	0	0	0	12	0	0	0	1	2	0	0	0	0	0	0	0	0
4/23/2002	LBL	LH	0	176	4	0	0	256	0	20	0	0	2	0	1	0	0	0	0	0	0	4	0	16	44	2	0	0	0	0	0	0
4/23/2002	LBL	LB	0	10	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	LH	1	20	0	0	0	12	0	188	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0
4/23/2002	LBL	LB	1	22	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	1	16	0	0	0	0	0	0	0	0
4/23/2002	LBL	C	0	39	0	0	0	2	0	32	0	0	0	0	1	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	1
4/23/2002	LBL	RH	0	41	0	0	0	1	0	91	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
4/23/2002	LBL	RB	0	7	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	RB	1	30	0	0	0	0	0	35	0	0	0	0	0	3	8	0	0	0	0	0	0	86	0	0	0	0	0	0	0	0
4/23/2002	LBL	C	1	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
4/23/2002	WF	LH	0	49	0	0	0	5	0	13	0	0	0	0	5	0	0	0	0	0	0	0	0	11	1	1	0	0	0	0	0	1
4/23/2002	WF	LB	0	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
4/23/2002	WF	LH	1	24	0	0	0	9	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	50	20	0	0	0	0	0	0	0
4/23/2002	WF	LB	1	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0
4/23/2002	WF	C	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
4/23/2002	WF	RH	0	16	0	0	0	3	0	39	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	RB	0	12	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	RH	1	10	0	0	1	0	0	116	0	0	0	0	1	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0
4/23/2002	WF	RB	1	28	0	0	1	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	0
4/23/2002	WF	C	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	LH	0	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0
4/23/2002	GL1	LB	0	112	0	0	1	0	0	22	0	0	0	0	2	0	0	0	2	3	0	0	0	209	1	0	0	0	0	0	0	2
4/23/2002	GL1	LH	1	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
4/23/2002	GL1	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	RH	0	0	0	0	0	0	0	37	0	1	1	0	1	0	6	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0
4/23/2002	GL1	RB	0	11	0	0	0	0	0	5	0	1	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	RH	1	0	0	0	0	0	204	4	0	0	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
4/23/2002	GL2	LH	0	5	0	0	0	1	12	136	0	0	0	0	0	0	4	0	1	0	0	0	0	16	0	0	0	0	0	0	0
4/23/2002	GL2	LB	0	0	0	0	0	0	9	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
4/23/2002	GL2	LH	1	0	0	0	3	0	0	10	0	0	0	0	0	0	2	0	0	0	0	0	123	0	0	0	0	0	0	0	3
4/23/2002	GL2	LB	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
4/23/2002	GL2	C	0	1	0	0	0	0	8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL2	RH	0	5	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
4/23/2002	GL2	RB	0	0	0	0	0	0	15	0	0	0	0	1	0	1	0	2	0	0	0	1	2	1	0	0	0	0	0	0	0
4/23/2002	GL2	RH	1	0	0	0	0	0	86	0	0	0	0	1	0	0	0	1	5	0	0	0	164	0	0	0	0	0	0	0	0
4/23/2002	GL2	RB	1	2	0	0	0	0	17	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0	0
4/23/2002	GL2	C	1	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	LH	0	0	0	0	0	6	0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3	0	0	0	0	1
5/7/2002	WF	LB	0	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0
5/7/2002	WF	LH	1	76	1	0	0	4	0	0	0	2	0	0	0	0	8	0	2	1	0	21	0	32	8	0	0	0	0	0	1
5/7/2002	WF	LB	1	4	0	0	0	0	39	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0
5/7/2002	WF	C	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	RH	0	16	0	0	0	3	0	160	0	0	0	0	0	1	40	0	0	19	0	6	0	0	0	5	0	0	0	0	0
5/7/2002	WF	RB	0	5	0	0	0	0	388	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
5/7/2002	WF	RH	1	28	0	0	0	0	8	0	0	0	0	16	0	12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
5/7/2002	WF	RB	1	10	0	0	0	0	90	0	0	0	0	3	1	0	0	0	2	0	0	0	7	0	0	0	0	0	0	0	1
5/7/2002	WF	C	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	LBL	LH	0	68	0	0	0	23	0	16	0	0	2	0	4	1	0	0	33	0	0	17	0	0	9	3	0	0	0	0	0
5/7/2002	LBL	LB	0	14	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	LBL	LH	1	34	0	0	0	2	0	72	0	0	0	0	3	0	0	0	16	0	0	11	0	16	13	0	0	0	0	0	1
5/7/2002	LBL	LB	1	45	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	LBL	C	0	33	0	0	0	0	21	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5/7/2002	LBL	RH	0	0	1	0	0	4	0	264	0	0	0	0	0	1	48	0	3	11	0	11	0	0	2	12	0	0	0	0	0
5/7/2002	LBL	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	LBL	RH	1	20	0	0	0	2	0	0	0	0	0	3	0	92	0	0	3	0	47	0	8	3	0	0	0	0	0	0	16
5/7/2002	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	LBL	C	1	33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
5/7/2002	GL1	LH	0	16	2	0	0	3	0	12	0	0	0	0	32	0	3	0	1	0	0	1	0	40	1	2	0	0	0	0	0
5/7/2002	GL1	LB	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	2	0	1	0	0	6	0	0	0	0	0	0
5/7/2002	GL1	LH	1	8	0	0	4	0	0	8	0	0	0	0	3	0	0	0	0	25	0	9	0	428	1	0	0	0	0	0	1

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
5/7/2002	GL1	LB	1	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	RH	0	0	0	0	0	4	12	196	0	0	0	0	0	0	1	0	8	72	0	21	0	2	11	6	0	0	0	0	0
5/7/2002	GL1	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	RH	1	0	0	0	0	0	3632	188	0	0	0	0	0	0	4	0	1	16	0	28	0	16	0	6	0	0	0	0	0
5/7/2002	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL2	LH	0	0	0	0	2	1	0	228	0	0	1	0	0	0	0	0	0	44	0	3	0	2	6	5	0	0	0	0	0
5/7/2002	GL2	LB	0	0	0	0	1	1	4	56	0	0	0	0	0	0	0	0	4	0	5	0	0	1	0	0	0	0	0	0	0
5/7/2002	GL2	LH	1	0	0	0	0	0	4	195	0	0	0	0	0	0	0	0	4	0	2	0	1	0	0	0	0	0	0	0	0
5/7/2002	GL2	LB	1	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL2	C	0	0	0	0	0	0	0	372	0	0	0	0	0	0	3	0	0	1	0	11	0	1	8	1	0	0	0	0	0
5/7/2002	GL2	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL2	RB	0	0	0	0	0	0	0	128	0	0	0	0	0	0	2	0	2	3	0	3	0	0	4	0	0	0	0	0	0
5/7/2002	GL2	RH	1	20	0	0	0	0	2	232	0	0	0	0	2	0	0	0	0	2	0	3	1	0	1	0	0	0	0	0	1
5/7/2002	GL2	RB	1	0	0	0	0	0	0	124	0	0	0	0	1	0	0	0	1	2	0	4	0	0	0	0	0	0	0	0	0
5/7/2002	GL2	C	1	1	0	0	0	0	0	17	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0
5/21/2002	WF	LH	0	94	0	0	0	2	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	5	4	3	0	0	0	0	1
5/21/2002	WF	LB	0	33	0	0	0	1	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0
5/21/2002	WF	LH	1	7	0	0	0	0	0	1	0	0	0	0	0	1	4	0	0	0	0	0	0	1	3	0	0	0	0	0	0
5/21/2002	WF	LB	1	34	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0
5/21/2002	WF	C	0	9	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1
5/21/2002	WF	RH	0	0	0	0	0	0	0	0	0	0	1	0	3	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	RB	0	28	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0
5/21/2002	WF	RH	1	114	0	0	0	2	0	68	0	0	0	0	2	0	4	0	1	3	0	1	0	30	0	0	0	0	0	0	3
5/21/2002	WF	RB	1	42	1	0	0	1	0	16	0	0	0	0	6	1	0	0	0	0	0	0	0	128	2	0	0	0	0	0	2
5/21/2002	WF	C	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0
5/21/2002	LBL	LH	0	92	0	0	1	8	0	23	0	0	0	0	6	0	2	0	0	1	0	2	0	4	5	2	0	0	0	0	0
5/21/2002	LBL	LB	0	16	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	LH	1	172	0	0	0	0	0	2	0	0	0	0	2	0	0	0	5	1	0	1	0	152	7	0	0	0	0	0	0
5/21/2002	LBL	LB	1	128	0	0	0	3	0	12	0	0	0	0	2	0	0	0	0	1	0	0	0	98	3	0	0	0	0	0	1
5/21/2002	LBL	C	0	29	0	0	0	0	0	10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0
5/21/2002	LBL	RH	0	80	0	0	0	29	0	0	0	0	0	0	12	0	112	0	0	0	0	0	0	0	7	2	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
5/21/2002	LBL	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	RH	1	88	0	0	0	1	0	24	0	1	0	0	1	2	24	0	0	3	0	0	0	82	0	0	0	0	0	0	0	5
5/21/2002	LBL	RB	1	37	0	0	0	0	0	19	0	0	0	0	1	0	23	0	0	0	0	0	0	7	0	0	0	0	1	0	1	
5/21/2002	LBL	C	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	
5/21/2002	GL1	LH	0	33	0	0	0	0	0	2	0	0	0	0	1	2	5	0	4	1	0	1	0	17	2	3	0	0	0	0	0	
5/21/2002	GL1	LB	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21/2002	GL1	LH	1	10	0	0	2	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	212	0	1	0	0	0	0	0	
5/21/2002	GL1	LB	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	
5/21/2002	GL1	C	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21/2002	GL1	RH	0	7	0	0	0	0	0	3	0	0	0	0	0	0	1	0	2	0	0	0	0	11	4	1	0	0	0	0	0	
5/21/2002	GL1	RB	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	0	0	11	0	0	0	0	0	0	0	
5/21/2002	GL1	RH	1	0	0	0	1	0	4	32	0	0	0	0	3	0	0	0	1	3	0	0	0	180	0	0	0	0	0	0	0	
5/21/2002	GL1	RB	1	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	1	0	0	0	23	0	0	0	0	0	0	0	
5/21/2002	GL1	C	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21/2002	GL2	LH	0	1	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	
5/21/2002	GL2	LB	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
5/21/2002	GL2	LH	1	1	0	0	0	0	0	28	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
5/21/2002	GL2	LB	1	1	0	0	0	0	1	19	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21/2002	GL2	C	0	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
5/21/2002	GL2	RH	0	0	0	0	1	0	0	62	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
5/21/2002	GL2	RB	0	4	0	0	0	0	0	85	0	0	0	0	0	0	0	0	6	0	0	0	0	0	1	1	0	0	0	0	0	
5/21/2002	GL2	RH	1	0	0	0	0	0	20	176	0	0	0	0	0	0	0	0	0	14	0	2	0	0	0	0	0	0	0	0	0	
5/21/2002	GL2	RB	1	0	0	0	2	0	0	25	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	1	
5/21/2002	GL2	C	1	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6/4/2002	LBL	LH	0	104	0	0	0	16	0	8	0	2	1	1	16	0	0	0	8	4	0	106	0	1	22	0	0	0	0	0	0	0
6/4/2002	LBL	LB	0	21	0	0	0	5	0	6	0	0	0	0	2	0	0	0	0	0	0	0	0	5	9	0	0	0	0	0	0	0
6/4/2002	LBL	LH	1	48	0	0	0	2	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0
6/4/2002	LBL	LB	1	152	0	0	0	0	0	36	0	0	0	1	0	0	0	0	1	0	0	9	0	5	0	0	0	0	0	0	1	
6/4/2002	LBL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6/4/2002	LBL	RH	0	28	0	0	0	1	0	52	0	0	0	1	16	0	32	0	0	3	0	0	0	0	1	0	0	0	0	0	0	
6/4/2002	LBL	RB	0	16	0	0	0	0	0	164	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	5	0	0	0	0	0	
6/4/2002	LBL	RH	1	236	0	0	0	1	0	92	0	1	0	1	32	0	0	0	0	6	0	30	0	0	8	0	0	0	0	0	16	
6/4/2002	LBL	RB	1	0	0	0	1	0	0	64	0	0	0	0	40	0	8	0	0	2	0	3	0	15	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
6/4/2002	LBL	C	1	27	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	LH	0	74	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	2	0	0	12	0	0	0	0	0	5
6/4/2002	WF	LB	0	0	1	0	0	3	0	30	0	1	1	0	2	0	0	0	0	3	0	42	0	0	23	5	0	0	0	0	10
6/4/2002	WF	LH	1	76	0	0	0	1	0	24	0	1	0	0	24	0	1	0	0	5	0	7	0	3	7	0	0	0	0	0	5
6/4/2002	WF	LB	1	40	0	0	2	0	0	0	0	1	0	0	26	0	0	0	0	0	0	0	0	3	2	0	0	0	0	1	4
6/4/2002	WF	C	0	10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	RH	0	20	1	0	0	5	0	0	0	1	0	0	2	0	34	0	0	0	0	6	0	1	5	0	0	0	0	0	0
6/4/2002	WF	RB	0	23	0	0	0	0	0	37	0	0	0	0	1	0	0	0	0	2	0	0	0	0	7	2	0	0	0	0	1
6/4/2002	WF	RH	1	428	1	0	0	16	0	0	0	6	0	2	11	0	0	0	0	0	0	24	0	20	56	3	0	0	0	0	20
6/4/2002	WF	RB	1	156	1	0	0	4	0	34	0	3	0	1	4	0	0	0	0	2	0	7	0	0	10	0	0	0	0	0	28
6/4/2002	WF	C	1	21	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
6/4/2002	GL1	LH	0	0	1	0	0	0	0	48	0	1	0	0	24	0	3	0	15	14	0	1	0	106	5	0	0	0	0	0	0
6/4/2002	GL1	LB	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	5	0	0	0	0	3	0	0	0	0	0	0	0
6/4/2002	GL1	LH	1	48	0	0	0	1	0	0	0	1	0	0	12	0	8	0	0	2	0	0	0	104	7	1	0	0	0	0	2
6/4/2002	GL1	LB	1	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0	0	150	0	0	0	0	0	0	0
6/4/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	RH	0	20	0	0	0	2	4	120	0	0	1	0	1	0	0	0	0	3	0	3	0	0	1	4	0	0	0	0	1
6/4/2002	GL1	RB	0	20	0	0	3	1	0	248	0	0	0	9	1	0	0	0	4	136	0	2	0	88	6	9	0	0	0	0	0
6/4/2002	GL1	RH	1	32	0	0	0	1	0	22	0	1	0	1	14	0	2	0	2	6	0	7	0	6	0	0	0	0	0	0	4
6/4/2002	GL1	RB	1	33	0	0	0	0	0	15	0	0	0	0	23	0	0	0	0	0	0	1	0	4	0	1	0	0	0	0	0
6/4/2002	GL1	C	1	10	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
6/4/2002	GL2	LH	0	0	0	0	0	5	0	18	0	1	1	1	1	0	0	0	0	10	0	0	0	0	0	9	0	0	0	0	0
6/4/2002	GL2	LB	0	16	0	0	0	1	0	31	0	0	0	1	0	0	0	0	0	10	0	0	0	3	2	1	0	0	0	0	0
6/4/2002	GL2	LH	1	66	0	0	6	0	0	20	0	0	0	0	4	0	2	0	0	10	0	0	0	28	3	9	0	0	0	0	2
6/4/2002	GL2	LB	1	11	0	0	2	0	0	14	0	0	0	1	0	0	1	0	1	6	0	0	0	6	1	0	0	0	0	0	0
6/4/2002	GL2	C	0	4	0	0	1	1	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	RH	0	3	0	0	0	0	0	300	0	0	0	0	0	0	0	0	4	27	0	0	0	0	0	0	0	0	0	0	1
6/4/2002	GL2	RB	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	7	48	0	0	0	0	1	0	0	0	0	0	0
6/4/2002	GL2	RH	1	17	0	0	1	0	0	204	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0
6/4/2002	GL2	RB	1	0	0	0	0	0	0	28	0	0	0	1	0	0	0	0	3	22	0	1	0	13	0	1	0	0	0	0	0
6/4/2002	GL2	C	1	2	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	LBL	LH	0	552	10	0	0	14	0	0	0	2	0	8	0	0	0	0	0	0	0	76	0	4	100	3	0	0	0	0	0
6/18/2002	LBL	LB	0	48	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
6/18/2002	LBL	LH	1	132	0	0	0	1	0	1	0	0	0	1	0	3	0	0	0	0	0	12	0	42	16	0	0	0	0	0	0	0
6/18/2002	LBL	LB	1	25	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0	0
6/18/2002	LBL	C	0	33	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
6/18/2002	LBL	RH	0	45	8	0	0	38	0	0	1	0	0	0	8	0	8	0	0	0	0	42	0	0	29	3	0	0	0	0	0	0
6/18/2002	LBL	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6/18/2002	LBL	RH	1	46	44	0	0	16	0	0	0	0	0	0	5	0	0	0	0	0	0	40	0	2	62	4	0	0	0	0	0	7
6/18/2002	LBL	RB	1	32	1	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	4	0	6	0	1	0	0	0	0	0	3
6/18/2002	LBL	C	1	40	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6/18/2002	WF	LH	0	88	0	0	0	16	0	4	0	0	0	0	4	0	0	0	0	0	0	40	0	0	4	1	0	0	0	0	0	0
6/18/2002	WF	LB	0	168	1	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	3	0	0	0	0	0	0
6/18/2002	WF	LH	1	124	8	0	0	0	0	2	0	1	0	0	4	0	0	0	0	0	0	18	0	16	120	0	0	0	0	0	0	2
6/18/2002	WF	LB	1	118	9	0	0	5	0	0	0	0	0	0	28	0	0	0	0	0	0	8	0	18	13	0	0	0	0	0	0	5
6/18/2002	WF	C	0	9	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	WF	RH	0	17	0	0	0	3	0	0	0	0	1	0	0	0	8	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0
6/18/2002	WF	RB	0	3	0	0	0	0	0	12	0	0	0	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	WF	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	WF	RB	1	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	76	1	0	0	0	0	0	0	0
6/18/2002	WF	C	1	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL1	LH	0	0	0	0	0	0	0	4	0	1	0	0	1	0	0	0	2	3	0	0	0	9	0	4	0	0	0	0	0	0
6/18/2002	GL1	LB	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	3	5	0	1	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL1	LH	1	16	1	0	0	0	0	20	0	0	0	1	8	0	0	0	2	5	0	0	0	1472	0	0	0	0	0	0	0	0
6/18/2002	GL1	LB	1	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	332	0	0	0	0	0	0	0	1
6/18/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6/18/2002	GL1	RH	0	7	0	0	7	8	0	0	0	1	2	0	4	0	0	0	2	2	0	0	0	0	3	8	0	0	0	0	0	0
6/18/2002	GL1	RB	0	2	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL1	RH	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	0	0	0	0	116	1	0	0	0	0	0	0	1
6/18/2002	GL1	RB	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0
6/18/2002	GL1	C	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL2	LH	0	0	0	0	2	0	0	18	0	0	0	2	9	1	11	0	0	0	0	0	0	0	1	1	0	0	0	0	0	4
6/18/2002	GL2	LB	0	0	0	0	0	1	0	16	0	0	0	2	3	0	0	0	0	1	0	0	0	15	3	0	0	0	0	0	0	0
6/18/2002	GL2	LH	1	28	0	0	0	0	204	30	0	0	0	0	24	0	4	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL2	LB	1	5	0	0	0	0	3	30	0	0	0	0	3	0	0	0	0	3	0	0	0	39	0	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG	
6/18/2002	GL2	C	0	0	0	0	0	1	0	24	0	0	0	0	1	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	2
6/18/2002	GL2	RH	0	42	0	0	0	0	0	128	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6/18/2002	GL2	RB	0	12	1	0	0	0	0	35	0	0	0	0	0	0	0	0	0	2	0	0	0	30	1	0	0	0	0	0	0	0
6/18/2002	GL2	RH	1	0	0	0	1	0	72	364	0	0	0	0	0	0	0	0	0	32	0	8	0	4	10	0	0	0	0	0	0	0
6/18/2002	GL2	RB	1	0	0	0	0	0	0	108	0	0	0	0	4	0	0	0	1	1	0	1	0	20	3	0	0	0	0	0	0	0
6/18/2002	GL2	C	1	7	0	0	3	1	1	15	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
7/8/2002	WF	LH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	LB	0	19	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	0	0	0	13	1	2	0	0	0	0	0	0
7/8/2002	WF	LH	1	132	0	0	0	0	0	0	0	1	0	0	8	84	8	0	0	2	0	4	0	2784	46	0	0	0	0	0	0	9
7/8/2002	WF	LB	1	92	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	7	0	2184	22	0	0	0	0	0	0	5
7/8/2002	WF	C	0	12	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
7/8/2002	WF	RH	0	4	2	0	0	0	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	RB	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
7/8/2002	WF	RH	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	RB	1	8	1	0	0	0	0	4	0	0	0	0	0	60	0	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0
7/8/2002	WF	C	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
7/8/2002	LBL	LH	0	280	1	0	0	4	0	4	0	0	0	0	3	0	8	0	0	86	0	4	0	180	2	35	0	0	0	1	3	3
7/8/2002	LBL	LB	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	4	0	220	0	0	0	0	0	0	0	0
7/8/2002	LBL	LH	1	60	2	0	0	0	0	0	0	0	0	0	1	0	64	0	0	2	0	4	0	504	40	1	0	0	0	0	0	3
7/8/2002	LBL	LB	1	40	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	38760	0	0	0	0	0	0	0	0
7/8/2002	LBL	C	0	10	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	5	0	0	0	0	0	1	0	
7/8/2002	LBL	RH	0	124	6	0	0	11	0	0	0	0	3	0	0	0	49	0	0	7	0	75	0	8	51	9	0	0	0	0	0	0
7/8/2002	LBL	RB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	RH	1	0	18	0	0	0	2	0	0	3	0	0	19	0	8	0	0	0	0	50	0	72	29	1	0	0	0	0	0	2
7/8/2002	LBL	RB	1	468	0	0	0	1	32	0	0	0	0	0	96	0	8	0	0	1	0	2	0	2220	4	0	0	0	0	0	0	10
7/8/2002	LBL	C	1	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232	0	0	0	0	0	0	0	0
7/8/2002	GL1	LH	0	0	0	0	0	6	0	8	0	0	0	3	3	0	20	0	3	7	0	0	0	288	0	11	0	0	0	0	0	0
7/8/2002	GL1	LB	0	52	0	0	4	2	0	32	0	0	0	0	4	0	40	0	8	26	0	33	0	204	1	36	0	0	0	0	0	0
7/8/2002	GL1	LH	1	28	0	0	2	0	36	0	0	0	3	0	5	0	28	0	1	2	0	5	0	2088	0	2	0	0	0	0	0	5
7/8/2002	GL1	LB	1	36	0	0	8	0	0	0	0	0	0	0	4	0	32	0	1	0	0	0	0	2432	1	3	0	0	0	0	0	4
7/8/2002	GL1	C	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	RH	0	40	0	0	0	2	48	0	0	0	0	2	30	0	80	0	1	0	0	12	0	640	7	9	0	0	0	0	0	11
7/8/2002	GL1	RB	0	10	0	0	0	4	0	0	0	0	0	0	0	0	11	0	1	23	0	3	0	14	0	39	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
7/8/2002	GL1	RH	1	44	0	0	0	6	0	0	0	0	0	0	12	0	36	0	0	1	0	0	0	12	1	11	0	0	0	0	4
7/8/2002	GL1	RB	1	12	1	0	5	0	0	0	0	0	0	0	26	0	80	0	0	0	0	4	0	800	5	0	0	0	0	0	20
7/8/2002	GL1	C	1	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	1	0	41	0	0	0	0	0	0	1
7/8/2002	GL2	LH	0	0	0	0	0	1	0	6	0	0	0	1	1	0	10	0	2	23	0	4	0	1	1	7	0	0	0	0	1
7/8/2002	GL2	LB	0	0	0	0	0	0	1	1	0	0	0	0	0	0	6	0	0	6	0	0	0	9	1	1	0	0	0	0	0
7/8/2002	GL2	LH	1	8	0	0	3	0	504	0	0	0	0	0	28	20	48	0	1	0	0	0	0	348	0	0	0	0	0	0	0
7/8/2002	GL2	LB	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	224	0	0	0	0	0	0	0
7/8/2002	GL2	C	0	3	0	0	0	0	0	5	0	0	0	0	0	0	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0
7/8/2002	GL2	RH	0	53	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	2	0	0	0	17	0	3	0	0	0	0	1
7/8/2002	GL2	RB	0	12	0	0	0	0	0	8	0	0	0	0	0	1	24	0	0	0	0	2	0	20	1	4	0	0	0	0	0
7/8/2002	GL2	RH	1	32	0	0	2	0	12	8	0	0	0	0	0	0	28	0	0	1	0	9	0	112	1	0	0	0	0	0	2
7/8/2002	GL2	RB	1	0	0	0	0	0	0	3	0	0	0	0	0	20	4	0	0	0	0	0	0	576	0	0	0	0	0	0	0
7/8/2002	GL2	C	1	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	1	0	0	0	0	16	0	0	0	0	0	0	1
7/22/2002	WF	LH	0	12	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	1	0	1	0	288	5	1	0	0	0	0	0
7/22/2002	WF	LB	0	7	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	1	0	240	4	2	0	0	0	0	0
7/22/2002	WF	LH	1	84	0	0	0	0	8	0	0	0	0	0	0	0	4	0	0	0	0	0	0	512	1	0	0	0	0	0	0
7/22/2002	WF	LB	1	36	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	2320	0	0	0	0	0	0	1
7/22/2002	WF	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	RB	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
7/22/2002	WF	RH	1	124	1	0	0	1	8	0	0	0	0	0	0	6	0	0	0	3	0	0	0	1216	1	0	0	0	0	0	3
7/22/2002	WF	RB	1	32	0	0	0	0	0	1	0	0	0	0	0	5	0	0	0	0	0	0	0	2832	0	0	0	0	0	0	0
7/22/2002	WF	C	1	2	0	0	0	2	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	43	0	0	0	0	0	0	1
7/22/2002	LBL	LH	0	51	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	44	0	2	0	0	0	0	0
7/22/2002	LBL	LB	0	37	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	1	0	4	0	23	0	7	0	0	0	0	0
7/22/2002	LBL	LH	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2104	4	0	0	0	0	0	4
7/22/2002	LBL	LB	1	40	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	6728	0	0	0	0	0	0	0
7/22/2002	LBL	C	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	RH	0	132	2	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	12	2	0	0	0	0	0	0
7/22/2002	LBL	RB	0	60	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
7/22/2002	LBL	RH	1	24	1	0	1	1	0	0	0	0	0	0	3	6	16	0	0	1	0	0	0	1036	1	0	0	0	0	0	18
7/22/2002	LBL	RB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	C	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	64	0	0	0	0	0	0	0

DATE	S	P	D	AMP	ANI	ANN	ARG	BEL	CHA	COR	CRA	DYL	DYT	ELM	EPH	GAS	GRS	GYL	GYR	HAL	HYC	HYD	ISO	MYS	NAU	NEP	OTH	PLE	SCI	TRI	ZYG
7/22/2002	GL1	LH	0	3	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	233	0	4	0	0	0	0	0
7/22/2002	GL1	LB	0	1	0	0	0	0	0	0	0	0	0	0	0	1	5	0	1	0	0	0	0	111	0	2	0	0	0	0	0
7/22/2002	GL1	LH	1	0	0	0	1	0	20	9	0	0	0	0	0	0	16	0	0	0	0	0	0	948	0	0	0	0	0	0	0
7/22/2002	GL1	LB	1	8	0	0	3	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	524	0	0	0	0	0	0	0
7/22/2002	GL1	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
7/22/2002	GL1	RH	0	32	0	0	0	1	0	0	0	0	0	0	0	0	28	0	1	2	0	0	0	280	0	11	0	0	0	0	0
7/22/2002	GL1	RB	0	0	0	0	3	1	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	23	0	10	0	0	0	0	1
7/22/2002	GL1	RH	0	12	0	0	0	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	224	0	1	0	0	0	0	3
7/22/2002	GL1	RB	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	0	0	0	0	0	0	1
7/22/2002	GL1	C	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	408	0	0	0	0	0	0	0
7/22/2002	GL2	LH	0	3	0	0	0	0	0	1	0	0	0	0	0	0	13	0	2	0	0	0	0	9	0	5	0	0	0	0	0
7/22/2002	GL2	LB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	LH	1	4	0	0	2	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	232	0	0	0	0	0	0	0
7/22/2002	GL2	LB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	C	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
7/22/2002	GL2	RH	0	14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	3	1	0	0	0	0	0	0
7/22/2002	GL2	RB	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0
7/22/2002	GL2	RH	1	12	0	0	0	0	10	0	0	0	0	0	1	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	1
7/22/2002	GL2	RB	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	484	0	0	0	0	0	0	0
7/22/2002	GL2	C	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	552	0	0	0	0	0	0	0

APPENDIX C: PUSH NET COLLECTIONS

Total number and volume sampled (m³) for larval taxa captured in push nets at each locality, date, push number, and sample net. Abbreviations for sites, nets, variables, and taxa are found on the first two pages.

SITES	
GL1	Grand Lake-1
GL2	Grand Lake-2
LBL	Little Bayou Long
WF	West Fork Bayou
NETS	
1	Left Triplicate Push Net
2	Center Triplicate Push Net
3	Right Triplicate Push Net
4	Tows
VARIABLES	
PUSH	Push Sequence Number
m ³	Volume of Water Sampled (m ³)
TAXA	
CYP	Preflexion Cyprinidae
CYA	Postflexion Cyprinidae
DOP	Preflexion <i>Dorosoma</i> spp.
DOF	Flexion <i>Dorosoma</i> spp.
DOA	Postflexion <i>Dorosoma</i> spp.
	Unidentified Stage <i>Dorosoma</i>
DOR	spp.
ICP	Preflexion <i>Ictiobus</i> spp.
ICF	Flexion <i>Ictiobus</i> spp.
LEP	Preflexion <i>Lepomis</i> spp.
LEF	Flexion <i>Lepomis</i> spp.
LEA	Postflexion <i>Lepomis</i> spp.
	Unidentified Stage <i>Lepomis</i>
LEU	spp.
	Preflexion <i>Micropterus</i>
LMP	<i>salmoides</i>
MEP	Preflexion <i>Menidia beryllina</i>
MEF	Flexion <i>Menidia beryllina</i>
MEA	Postflexion <i>Menidia beryllina</i>
MIP	Preflexion <i>Micropterus</i> spp.
MIF	Flexion <i>Micropterus</i> spp.

MIA	Postflexion <i>Micropterus</i> spp.
MOA	Postflexion <i>Morone</i> spp.
PEP	Preflexion <i>Etheostoma</i> spp.
PEF	Flexion <i>Etheostoma</i> spp.
PEA	Postflexion <i>Etheostoma</i> spp.
POP	Preflexion <i>Pomoxis</i> spp.
POF	Flexion <i>Pomoxis</i> spp.
UID	Unidentified app.

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
5/9/2001	WF	1	4	39.93	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	WF	2	4	49.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	WF	3	4	61.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	LBL	1	4	45.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	LBL	2	4	42.60	0	0	0	1	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	LBL	3	4	25.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL1	1	4	72.38	0	0	28	33	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL1	2	4	55.87	0	0	19	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL1	3	4	59.78	0	0	14	10	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	1	4	44.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	2	4	58.18	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2001	GL2	3	4	36.29	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	GL2	1	4	49.58	0	0	4	4	1	0	0	0	9	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	GL2	2	4	43.96	0	0	12	10	0	0	0	0	30	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	GL2	3	4	39.69	0	0	7	2	2	0	0	0	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	1	4	38.05	0	0	1	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	2	4	46.05	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2001	WF	3	4	57.75	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	1	4	53.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	2	4	46.14	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	LBL	3	4	29.95	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	1	4	71.49	0	0	48	1	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	2	4	54.71	0	0	39	2	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2001	GL1	3	4	35.63	0	0	4	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	1	1	69.80	0	0	2	2	1	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	1	2	69.80	0	0	2	1	2	0	0	0	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	1	3	69.80	0	0	4	1	2	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	2	1	59.01	0	0	0	3	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	2	2	59.01	0	0	2	2	1	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	2	3	59.01	0	0	0	2	1	0	0	0	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	3	1	63.22	0	0	0	1	2	0	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	3	2	63.22	0	0	0	0	4	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	LBL	3	3	63.22	0	0	2	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
7/17/2001	GL1	1	1	58.50	0	0	0	1	57	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1
7/17/2001	GL1	1	2	58.50	0	0	0	17	4	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	1	3	58.50	0	0	0	14	46	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	2	1	56.95	0	0	3	27	38	0	0	0	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	2	2	56.95	0	0	1	22	27	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	2	3	56.95	0	0	10	25	102	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	3	1	51.86	0	0	6	20	42	0	0	0	4	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7/17/2001	GL1	3	2	51.86	0	0	3	4	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7/17/2001	GL1	3	3	51.86	0	0	10	25	74	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	1	1	67.69	0	0	7	2	133	0	0	0	6	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	1	2	67.69	0	0	3	1	33	0	0	0	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	1	3	67.69	0	0	5	1	117	0	0	0	10	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	2	1	65.94	0	0	13	6	66	0	0	0	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	2	2	65.94	0	0	9	6	27	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	2	3	65.94	0	0	10	0	124	0	0	0	6	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	3	1	50.50	0	0	5	4	21	0	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	3	2	50.50	0	0	7	2	5	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	GL2	3	3	50.50	0	0	9	0	9	0	0	0	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	1	1	71.38	0	0	2	4	3	0	0	0	43	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	1	2	71.38	0	0	0	0	2	0	0	0	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	1	3	71.38	0	0	0	1	1	0	0	0	30	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	2	1	54.73	0	0	1	0	3	0	0	0	26	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	2	2	54.73	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	2	3	54.73	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	3	1	83.39	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	3	2	83.39	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2001	LBL	3	3	83.39	0	0	0	1	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	1	1	41.95	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	1	2	41.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	1	3	41.95	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	2	1	50.12	0	0	0	0	2	0	0	0	6	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	2	2	50.12	0	0	0	0	1	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	2	3	50.12	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
8/30/2001	GL1	3	1	60.21	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	3	2	60.21	0	0	0	0	3	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	GL1	3	3	60.21	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	1	1	53.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	1	2	53.54	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	1	3	53.54	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	2	1	53.21	0	0	0	0	0	0	0	0	5	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	2	2	53.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	2	3	53.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	3	1	53.24	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	3	2	53.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2001	WF	3	3	53.24	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	LBL	1	1	54.98	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
3/5/2002	LBL	1	2	54.98	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	5	0	0
3/5/2002	LBL	1	3	54.98	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
3/5/2002	LBL	2	1	69.86	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	5	0	0
3/5/2002	LBL	2	2	69.86	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	4	0	0
3/5/2002	LBL	2	3	69.86	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	LBL	3	1	81.89	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3/5/2002	LBL	3	2	81.89	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	6	0	0
3/5/2002	LBL	3	3	81.89	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
3/5/2002	GL2	1	1	41.58	0	0	0	0	0	0	57	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	11	0	0
3/5/2002	GL2	1	2	41.58	0	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0
3/5/2002	GL2	1	3	41.58	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
3/5/2002	GL2	2	1	35.81	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
3/5/2002	GL2	2	2	35.81	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
3/5/2002	GL2	2	3	35.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2002	GL2	3	1	49.44	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
3/5/2002	GL2	3	2	49.44	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0
3/5/2002	GL2	3	3	49.44	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	LBL	1	1	58.51	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	1	0	0
3/19/2002	LBL	1	2	58.51	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	LBL	1	3	58.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
3/19/2002	LBL	2	1	61.51	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	LBL	2	2	61.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3/19/2002	LBL	2	3	61.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0
3/19/2002	LBL	3	1	54.34	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0
3/19/2002	LBL	3	2	54.34	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0
3/19/2002	LBL	3	3	54.34	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0
3/19/2002	WF	1	1	57.96	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	WF	1	2	57.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	WF	1	3	57.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
3/19/2002	WF	2	1	41.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
3/19/2002	WF	2	2	41.43	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3/19/2002	WF	2	3	41.43	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3/19/2002	WF	3	1	47.81	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2002	WF	3	2	47.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
3/19/2002	WF	3	3	47.81	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
3/19/2002	GL1	1	1	49.82	0	0	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
3/19/2002	GL1	1	2	49.82	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0
3/19/2002	GL1	1	3	49.82	0	0	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
3/19/2002	GL1	2	1	48.40	0	0	21	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0
3/19/2002	GL1	2	2	48.40	0	0	31	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	0	1
3/19/2002	GL1	2	3	48.40	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3/19/2002	GL1	3	1	61.89	0	0	28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	13	0	0
3/19/2002	GL1	3	2	61.89	0	0	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0
3/19/2002	GL1	3	3	61.89	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0
3/19/2002	GL2	1	1	48.94	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0	0
3/19/2002	GL2	1	2	48.94	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
3/19/2002	GL2	1	3	48.94	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
3/19/2002	GL2	2	1	45.42	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6	0	0
3/19/2002	GL2	2	2	45.42	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
3/19/2002	GL2	2	3	45.42	0	0	33	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
3/19/2002	GL2	3	1	43.41	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	5	0	0
3/19/2002	GL2	3	2	43.41	0	0	27	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
3/19/2002	GL2	3	3	43.41	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
4/9/2002	LBL	1	1	57.47	0	0	15	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	2	0
4/9/2002	LBL	1	2	57.47	0	0	22	1	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	7	0	0	3	0	3
4/9/2002	LBL	1	3	57.47	0	0	29	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0	0	7	1	0	2	0	0
4/9/2002	LBL	2	1	57.82	0	0	28	1	0	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	6	0	0	2	1	0
4/9/2002	LBL	2	2	57.82	0	0	24	2	1	0	1	0	12	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
4/9/2002	LBL	2	3	57.82	0	0	31	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	5	0	1	1	0	0
4/9/2002	LBL	3	1	50.56	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	0
4/9/2002	LBL	3	2	50.56	0	0	18	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
4/9/2002	LBL	3	3	50.56	0	0	11	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0
4/9/2002	WF	1	1	76.78	0	0	2	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	WF	1	2	76.78	0	0	2	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	WF	1	3	76.78	0	0	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4/9/2002	WF	2	1	61.97	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	WF	2	2	61.97	0	0	2	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0
4/9/2002	WF	2	3	61.97	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
4/9/2002	WF	3	1	44.09	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	WF	3	2	44.09	0	0	7	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0
4/9/2002	WF	3	3	44.09	0	0	2	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4/9/2002	GL1	1	1	72.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL1	1	2	72.46	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL1	1	3	72.46	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4/9/2002	GL1	2	1	65.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4/9/2002	GL1	2	2	65.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4/9/2002	GL1	2	3	65.83	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4/9/2002	GL1	3	1	65.67	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4/9/2002	GL1	3	2	65.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
4/9/2002	GL1	3	3	65.67	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	1	1	56.05	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	1	2	56.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	1	3	56.05	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	2	1	50.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	2	2	50.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	2	3	50.82	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
4/9/2002	GL2	3	1	47.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2002	GL2	3	2	47.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4/9/2002	GL2	3	3	47.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	1	1	72.23	0	0	63	4	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
4/23/2002	LBL	1	2	72.23	0	0	59	4	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
4/23/2002	LBL	1	3	72.23	0	0	82	7	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
4/23/2002	LBL	2	1	76.11	0	0	36	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
4/23/2002	LBL	2	2	76.11	0	0	35	1	0	0	0	0	20	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	2	3	76.11	0	0	35	5	0	0	0	0	25	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	3	1	63.42	0	0	170	5	0	0	0	0	17	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	3	2	63.42	0	0	157	6	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	LBL	3	3	63.42	0	0	234	7	0	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	1	1	62.96	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	1	2	62.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	1	3	62.96	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	2	1	71.87	0	0	16	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	2	2	71.87	0	0	9	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
4/23/2002	WF	2	3	71.87	0	0	21	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
4/23/2002	WF	3	1	62.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	3	2	62.32	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	WF	3	3	62.32	0	0	6	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	1	1	74.61	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	1	2	74.61	0	0	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	1	3	74.61	0	0	25	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	2	1	61.37	0	0	35	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	2	2	61.37	0	0	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	2	3	61.37	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	3	1	62.93	0	0	35	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	3	2	62.93	0	0	36	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL1	3	3	62.93	0	0	29	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL2	1	1	51.40	0	0	20	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL2	1	2	51.40	0	0	18	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4/23/2002	GL2	1	3	51.40	0	0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
4/23/2002	GL2	2	1	41.18	0	0	6	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL2	2	2	41.18	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL2	2	3	41.18	0	0	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4/23/2002	GL2	3	1	53.65	0	0	17	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
4/23/2002	GL2	3	2	53.65	0	0	16	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2002	GL2	3	3	53.65	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
5/7/2002	WF	1	1	52.38	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	1	2	52.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	1	3	52.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	2	1	69.88	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	2	2	69.88	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	2	3	69.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	3	1	65.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	3	2	65.95	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	WF	3	3	65.95	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	1	1	56.90	0	0	6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	1	2	56.90	0	0	16	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	1	3	56.90	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	2	1	49.28	0	0	20	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	2	2	49.28	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	2	3	49.28	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	3	1	60.11	0	0	16	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	3	2	60.11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2002	GL1	3	3	60.11	0	0	20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	1	1	65.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	1	2	65.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	1	3	65.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	2	1	65.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	2	2	65.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	2	3	65.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	3	1	54.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	3	2	54.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	WF	3	3	54.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
5/21/2002	LBL	1	1	58.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	1	2	58.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	1	3	58.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	2	1	53.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	2	2	53.74	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	2	3	53.74	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	3	1	56.03	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	3	2	56.03	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	LBL	3	3	56.03	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	1	1	59.95	0	0	98	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	1	2	59.95	0	0	100	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	1	3	59.95	0	0	116	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	2	1	60.11	0	0	234	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	2	2	60.11	0	0	208	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	2	3	60.11	0	0	85	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	3	1	60.31	0	0	327	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	3	2	60.31	0	0	205	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL1	3	3	60.31	0	0	202	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	1	1	57.86	0	0	24	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	1	2	57.86	0	0	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	1	3	57.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	2	1	54.40	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	2	2	54.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	2	3	54.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	3	1	52.26	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	3	2	52.26	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2002	GL2	3	3	52.26	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	1	1	62.10	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	1	2	62.10	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	1	3	62.10	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	2	1	53.71	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	2	2	53.71	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	2	3	53.71	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
6/4/2002	LBL	3	1	38.91	0	0	2	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	3	2	38.91	0	0	3	0	0	0	0	0	19	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6/4/2002	LBL	3	3	38.91	0	0	11	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	1	1	63.77	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	1	2	63.77	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	1	3	63.77	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	2	1	46.31	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	2	2	46.31	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	2	3	46.31	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	3	1	46.59	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	3	2	46.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	WF	3	3	46.59	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	1	1	58.54	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	1	2	58.54	0	0	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	1	3	58.54	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	2	1	48.41	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	2	2	48.41	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	2	3	48.41	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	3	1	41.01	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	3	2	41.01	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL1	3	3	41.01	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	1	1	54.38	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	1	2	54.38	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	1	3	54.38	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	2	1	54.82	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	2	2	54.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	2	3	54.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	3	1	51.67	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	3	2	51.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2002	GL2	3	3	51.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	1	1	50.87	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	1	2	50.87	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	1	3	50.87	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
6/24/2002	WF	2	1	57.12	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	2	2	57.12	0	1	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	2	3	57.12	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	3	1	57.65	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	3	2	57.65	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	WF	3	3	57.65	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	1	1	50.02	0	0	2	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	1	2	50.02	0	0	0	1	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	1	3	50.02	0	0	1	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	2	1	56.65	0	0	1	0	1	0	0	0	33	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	2	2	56.65	0	0	1	0	1	0	0	0	32	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	2	3	56.65	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	3	1	50.75	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	3	2	50.75	0	0	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	LBL	3	3	50.75	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	1	1	55.87	0	0	21	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	1	2	55.87	0	0	17	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	1	3	55.87	0	0	14	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	2	1	46.71	0	0	24	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	2	2	46.71	0	0	27	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	2	3	46.71	0	0	20	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	3	1	49.67	0	0	66	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	3	2	49.67	0	0	63	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL1	3	3	49.67	0	0	50	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	1	1	56.24	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	1	2	56.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	1	3	56.24	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	2	1	49.27	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	2	2	49.27	0	0	5	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	2	3	49.27	0	0	6	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	3	1	43.20	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	3	2	43.20	0	0	5	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2002	GL2	3	3	43.20	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
7/8/2002	WF	1	2	55.39	0	0	5	3	11	0	0	0	46	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	1	3	55.39	0	0	6	3	2	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	2	2	50.66	0	0	8	3	2	0	0	0	69	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
7/8/2002	WF	2	3	50.66	0	0	12	1	6	0	0	0	89	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	3	2	53.26	0	0	1	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	WF	3	3	53.26	0	0	3	2	0	0	0	0	56	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	1	2	56.83	0	0	11	1	4	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	1	3	56.83	0	0	14	3	1	0	0	0	66	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	2	2	63.13	0	0	14	3	2	0	0	0	41	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	2	3	63.13	0	0	26	4	2	0	0	0	78	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	3	2	70.92	0	0	9	3	3	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	LBL	3	3	70.92	0	0	31	8	0	0	0	0	124	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	1	2	63.61	0	0	291	452	2886	0	0	0	95	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	1	3	63.61	0	0	704	502	4446	0	0	0	136	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	2	2	62.74	0	0	185	536	2052	0	0	0	49	6	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	2	3	62.74	0	0	241	397	4839	0	0	0	66	6	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	3	2	60.87	0	0	430	1251	3174	0	0	0	171	12	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL1	3	3	60.87	0	0	405	2351	5594	0	0	0	154	12	1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	1	1	45.86	0	0	15	83	426	0	0	0	120	26	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	1	2	45.86	0	0	22	71	377	0	0	0	153	19	7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	1	3	45.86	0	0	41	83	579	0	0	0	166	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	2	1	51.04	0	0	37	54	273	0	0	0	245	64	167	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	2	2	51.04	0	0	73	41	330	0	0	0	236	87	248	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	2	3	51.04	0	0	71	79	425	0	0	0	237	27	9	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	3	1	49.42	0	0	57	90	570	0	0	0	484	93	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	3	2	49.42	0	0	105	90	555	0	0	0	354	123	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2002	GL2	3	3	49.42	0	0	46	108	711	0	0	0	276	151	25	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	1	2	48.77	0	0	11	8	4	0	0	0	16	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
7/22/2002	WF	1	3	48.77	0	0	13	8	5	0	0	0	21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	2	2	42.51	0	0	0	1	3	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	2	3	42.51	0	0	9	4	23	0	0	0	37	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	3	2	31.76	0	0	6	5	6	0	0	0	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	WF	3	3	31.76	0	0	17	14	5	0	0	0	33	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

DATE	SITE	PUSH	NET	m ³	CYP	CYA	DOP	DOF	DOA	DOR	ICP	ICF	LEP	LEF	LEA	LEU	LMP	MEP	MEF	MEA	MIP	MIF	MIA	MOA	PEP	PEF	PEA	POP	POF	UID
7/22/2002	LBL	1	2	73.41	0	0	41	47	98	0	0	0	99	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	1	3	73.41	0	0	23	89	299	0	0	0	237	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	2	2	47.88	0	0	6	8	24	0	0	0	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	2	3	47.88	0	0	7	15	125	0	0	0	106	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	3	2	37.18	0	0	4	5	19	0	0	0	20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	LBL	3	3	37.18	0	0	3	11	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL1	1	2	48.03	0	0	1334	29	15	0	0	0	50	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL1	1	3	48.03	0	0	1735	126	50	0	0	0	141	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL1	2	2	54.37	0	0	14	23	267	0	0	0	29	17	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL1	2	3	54.37	0	0	49	75	720	0	0	0	74	28	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL1	3	2	35.29	0	0	24	12	37	0	0	0	46	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL1	3	3	35.29	0	0	25	24	89	0	0	0	74	15	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
7/22/2002	GL2	1	2	51.94	0	0	7	5	9	0	0	0	128	18	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	1	3	51.94	0	0	6	8	9	0	0	0	73	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	2	2	40.53	0	0	7	7	4	0	0	0	135	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	2	3	40.53	0	0	8	3	8	0	0	0	87	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	3	2	42.94	0	0	18	25	10	0	0	0	156	13	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2002	GL2	3	3	42.94	0	0	19	25	29	0	0	0	112	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VITA

Matthew Aaron Engel was born in Minot, North Dakota, on July 24, 1976. Matthew graduated from Belleville East High School in Belleville, Illinois in 1994, and attended the University of Illinois at Urbana-Champaign thereafter. After graduating college in 1998 with a bachelor of science degree in pre-medicine biology, he worked as a fisheries intern for the Illinois Natural History Survey at the Great Rivers Field Station in Alton, Illinois, and at the Kaskaskia Biological Station in Sullivan, Illinois. In June of 1999, Matthew took a job as a fisheries technician at the Kaskaskia Biological Station and worked through December 2000 when he was accepted to Louisiana State University for graduate school. Matthew is now a candidate for a master of science degree in fisheries with a minor in experimental statistics.